

|  |                   |
|--|-------------------|
|  | All versions      |
|  | Only FULL version |

R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

EMT130\_MR Rev0



| Register Name                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Register Type  | R/W | Default | Modbus Address |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|---------|----------------|
| <b>Device information</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |     |         |                |
| machine_id_1                       | Machine ID, set by Chronos. 1 char per register                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | char           | RO  | E       | 40001          |
| machine_id_2                       | Machine ID, set by Chronos. 1 char per register                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | char           | RO  | M       | 40002          |
| machine_id_3                       | Machine ID, set by Chronos. 1 char per register                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | char           | RO  | T       | 40003          |
| machine_id_4                       | Machine ID, set by Chronos. 1 char per register                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | char           | RO  | 1       | 40004          |
| machine_id_5                       | Machine ID, set by Chronos. 1 char per register                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | char           | RO  | 3       | 40005          |
| machine_id_6                       | Machine ID, set by Chronos. 1 char per register                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | char           | RO  | 0       | 40006          |
| machine_id_7                       | Machine ID, set by Chronos. 1 char per register                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | char           | RO  | 10      | 40007          |
| machine_id_8                       | Machine ID, set by Chronos. 1 char per register                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | char           | RO  | 10      | 40008          |
| hw_version                         | Hardware version, set by Chronos.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | unsigned short | RO  | 1       | 40009          |
| fw_version                         | Firmware version, set by Chronos.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | unsigned short | RO  | 4       | 40010          |
| mounted_version                    | 0 -> 5A<br>1 -> Rogowski, 333 mV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | unsigned short | RO  | 0       | 40011          |
| year_month                         | calibration year and month                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | unsigned short | RO  | 6153    | 40012          |
| day_Hour                           | calibration day and hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | unsigned short | RO  | 6671    | 40013          |
| minute_second                      | calibration minute and second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | unsigned short | RO  | 9517    | 40014          |
| feature_version                    | 0 -> Base version<br>1 -> Full version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | unsigned short | RO  | 0       | 40015          |
| Mac_address_Wifi_STA_1             | Mac address Wifi Station MSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | unsigned short | RO  | 11      | 40016          |
| Mac_address_Wifi_STA_2             | Mac address Wifi Station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | unsigned short | RO  | 22      | 40017          |
| Mac_address_Wifi_STA_3             | Mac address Wifi Station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | unsigned short | RO  | 33      | 40018          |
| Mac_address_Wifi_STA_4             | Mac address Wifi Station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | unsigned short | RO  | 44      | 40019          |
| Mac_address_Wifi_STA_5             | Mac address Wifi Station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | unsigned short | RO  | 55      | 40020          |
| Mac_address_Wifi_STA_6             | Mac address Wifi Station LSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | unsigned short | RO  | 66      | 40021          |
| Mac_address_Wifi_SOFT_AP_1         | Mac address Wifi software enabled access point MSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | unsigned short | RO  | 11      | 40022          |
| Mac_address_Wifi_SOFT_AP_2         | Mac address Wifi software enabled access point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | unsigned short | RO  | 22      | 40023          |
| Mac_address_Wifi_SOFT_AP_3         | Mac address Wifi software enabled access point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | unsigned short | RO  | 33      | 40024          |
| Mac_address_Wifi_SOFT_AP_4         | Mac address Wifi software enabled access point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | unsigned short | RO  | 44      | 40025          |
| Mac_address_Wifi_SOFT_AP_5         | Mac address Wifi software enabled access point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | unsigned short | RO  | 55      | 40026          |
| Mac_address_Wifi_SOFT_AP_6         | Mac address Wifi software enabled access point LSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | unsigned short | RO  | 66      | 40027          |
| Mac_address_Ethernet_1             | Mac address Ethernet MSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | unsigned short | RO  | 31      | 40028          |
| Mac_address_Ethernet_2             | Mac address Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | unsigned short | RO  | 32      | 40029          |
| Mac_address_Ethernet_3             | Mac address Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | unsigned short | RO  | 33      | 40030          |
| Mac_address_Ethernet_4             | Mac address Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | unsigned short | RO  | 34      | 40031          |
| Mac_address_Ethernet_5             | Mac address Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | unsigned short | RO  | 35      | 40032          |
| Mac_address_Ethernet_6             | Mac address Ethernet LSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | unsigned short | RO  | 36      | 40033          |
| Mac_address_Bluetooth_1            | Mac address Bluetooth MSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | unsigned short | RO  | 96      | 40034          |
| Mac_address_Bluetooth_2            | Mac address Bluetooth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | unsigned short | RO  | 95      | 40035          |
| Mac_address_Bluetooth_3            | Mac address Bluetooth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | unsigned short | RO  | 94      | 40036          |
| Mac_address_Bluetooth_4            | Mac address Bluetooth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | unsigned short | RO  | 93      | 40037          |
| Mac_address_Bluetooth_5            | Mac address Bluetooth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | unsigned short | RO  | 92      | 40038          |
| Mac_address_Bluetooth_6            | Mac address Bluetooth LSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | unsigned short | RO  | 91      | 40039          |
| <b>Device settings</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |     |         |                |
| modbus_RTU_address                 | Modbus address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | unsigned short | R/W | 1       | 40223          |
| modbus_RTU_delay                   | Delay Modbus answer (in ms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | unsigned short | R/W | 0       | 40224          |
| modbus_RTU_baudrate                | Baudrate<br>0 -> 1200<br>1 -> 2400<br>2 -> 4800<br>3 -> 9600<br>4 -> 19200<br>5 -> 38400<br>6 -> 57600<br>7 -> 115200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | unsigned short | R/W | 3       | 40225          |
| modbus_RTU_parity                  | 0 -> NONE<br>1 -> EVEN<br>2 -> ODD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | unsigned short | R/W | 0       | 40226          |
| modbus_RTU_Stop_bit                | 0 -> 1 Bit<br>1 -> 1.5 Bit<br>2 -> 2 Bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | unsigned short | R/W | 0       | 40227          |
| Measurement_Configuration_Register | Bit 0: Don't care<br>Bit 1..2: Connection<br>0 -> Single phase<br>1 -> Three phase: 3 wires, 2 TA (Aron)<br>2 -> Three phase: 3 wires, 3 TA<br>3 -> Three phase: 4 wires, 3 TA (with neutral)<br>Bit 3: FFT representation<br>0 -> Absolute<br>1 -> Relative to the I <sub>1</sub> value<br>Bit 4: HPF filter<br>0 -> Enabled<br>1 -> Disabled<br>Bit 5: Reactive power calculation method<br>0 -> Triangle method<br>1 -> Budeanu<br>Bit 6: Digital output behaviour<br>0 -> Alarm<br>1 -> Pulsed output for kWh<br>Bit 7: Frequency detection Channel<br>0 -> Voltage<br>1 -> Current<br>Bit 9: Energy saving<br>0 -> Disabled<br>1 -> Enabled<br>Bit 10..14: Output switch condition<br>0 -> Closed condition<br>1 -> Open condition<br>2 -> Within Threshold<br>3 -> Outside Threshold<br>Bit 11..12: Measurement type<br>0 -> Float<br>1 -> Float Swapped<br>2 -> $\text{Measured Value} \cdot \text{Float} \cdot 100$ | unsigned short | R/W | 518     | 40228          |
| Machine_Configuration_Register     | Bit 0: Don't care<br>Bit 1: Buzzer in touch pad<br>0 -> Disabled<br>1 -> Enabled<br>Bit 2: Buzzer during alarm condition<br>0 -> Disabled<br>1 -> Enabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | unsigned short | R/W | 1       | 40229          |
| TA_Chronos_register                | 0 -> Let user choose what Ratio and delay to choose<br>1 -> Assigned to Chronos 100/5<br>2 -> Assigned to ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | unsigned short | R/W | 0       | 40230          |
| TA_Transducer_ratio                | If Input 1A/5A, 20mA/100 mA -> Current transformer ratio M/N - Default 1.0 (Ex: 600:5 -> transducer_ratio = 120)<br>If Input Rogowski -> Sensitivity [V/A]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | float          | R/W | 1       | 40231          |
| TA_Transducer_delay                | Current transformer delay in [°] @ 50 Hz for accurate power calculation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | float          | R/W | 0       | 40233          |
| TV_Transducer_ratio                | Voltage transformer ratio M/N - Default 1.0 (Ex: 1000:100 -> transducer_ratio = 10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | float          | R/W | 1       | 40235          |
| TV_Transducer_delay                | Voltage transformer delay in [°] @ 50 Hz for accurate power calculation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | float          | R/W | 0       | 40237          |
| minimum_voltage_ripple             | Minimum threshold under which the instrument reads 0 independent from the input value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | float          | R/W | 0       | 40239          |
| minimum_current_ripple             | Minimum threshold under which the instrument reads 0 independent from the input value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | float          | R/W | 0       | 40241          |
| minimum_power_ripple               | Minimum threshold under which the instrument reads 0 independent from the input value (P, Q, and S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | float          | R/W | 0       | 40243          |
| DC_Filter                          | Update rate when no Zero crossing is detected [tenth of second]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | unsigned short | R/W | 10      | 40245          |
| AC_Filter                          | Update rate when Zero crossing is detected [number of periods]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | unsigned short | R/W | 50      | 40246          |
| minute_for_Max_demand              | Minute for Max demand calculation (0..45)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | unsigned short | R/W | 0       | 40247          |



| Register Name                 | Description                                                                                                                                                                                                                                                                                                                                                                                               | Register Type  | R/W | Default | Modbus Address |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|---------|----------------|
| Or_settings                   | Register to enable for multiple alarms settings<br><br>Bit:<br>0 → Over/under value phase 1<br>1 → Over/under value phase 2<br>2 → Over/under value phase 3<br>3 → missing phase 1<br>4 → missing phase 2<br>5 → missing phase 3<br>6 → Asymmetry<br>7 → Phase sequence<br>15 → Or_Alarm_enable                                                                                                           | unsigned short | R/W | 0       | 40248          |
| seconds_for_mean_RMS          | Register in seconds (0..60) for RMS average                                                                                                                                                                                                                                                                                                                                                               | unsigned short | R/W | 0       | 40249          |
| seconds_for_MAX_RMS           | Seconds 1..60 for MAX RMS value. If the register is 0, then the absolute MAX RMS is given                                                                                                                                                                                                                                                                                                                 | unsigned short | R/W | 0       | 40250          |
| seconds_for_min_RMS           | Seconds 1..60 for min RMS value. If the register is 0, then the absolute min RMS is given                                                                                                                                                                                                                                                                                                                 | unsigned short | R/W | 0       | 40251          |
| Energy_unit_factor            | Variable for changing Energy measurement unit:<br>0 -> [Wh/10]<br>1 -> [Wh]<br>..<br>4 -> [KWh]                                                                                                                                                                                                                                                                                                           | unsigned short | R/W | 0       | 40252          |
| Voltage_unbalance_setpoint    | Setpoint for Voltage Unbalance Alarm                                                                                                                                                                                                                                                                                                                                                                      | float          | R/W | 0       | 40255          |
| buzzer_settings               | Set Alarm Buzzer<br><br>Bit:<br>0 → Fail Eeprom (settings, calibration or Energy)<br>1 → Phase reversal<br>2 → I1 Over-range<br>3 → I1 Under-range<br>4 → I2 Over-range<br>5 → I2 Under-range<br>6 → I3 Over-range<br>7 → I3 Under-range<br>8 → V1 Over-range<br>9 → V1 Under-range<br>10 → V2 Over-range<br>11 → V2 Under-range<br>12 → V3 Over-range<br>13 → V3 Under-range<br>14 → Communication error | unsigned short | R/W | 0       | 40258          |
| Alarm_Register_start_address  | DIGITAL OUTPUT 1: Modbus address address for alarm (starting from the modbus address of V L1 N, V L2 N, V L3 N, ecc)                                                                                                                                                                                                                                                                                      | unsigned short | R/W | 40833   | 40267          |
| Alarm_delay                   | DIGITAL OUTPUT 1: Delay in ms for Alarm trigger                                                                                                                                                                                                                                                                                                                                                           | unsigned short | R/W | 0       | 40268          |
| Alarm_trip_value              | DIGITAL OUTPUT 1: Alarm Threshold for "closed" and "open" condition OR first alarm Threshold for "within threshold" and "Outside threshold" condition                                                                                                                                                                                                                                                     | float          | R/W | 0       | 40269          |
| Alarm_hysteresis              | DIGITAL OUTPUT 1: Alarm Hysteresis                                                                                                                                                                                                                                                                                                                                                                        | float          | R/W | 0       | 40271          |
| Alarm_trip_value_2            | DIGITAL OUTPUT 1: Second alarm Threshold for "within threshold" and "Outside threshold" condition                                                                                                                                                                                                                                                                                                         | float          | R/W | 0       | 40273          |
| Nominal_Star_Voltage          | Nominal Star Voltage for Sag, Swell, Interruption monitoring [V]                                                                                                                                                                                                                                                                                                                                          | float          | R/W | 230     | 40277          |
| Sag_percentage_level          | Percentage over Nominal_Star_Voltage under which a Sag event is generated (default 90 %); must be over Interruption_percentage_level                                                                                                                                                                                                                                                                      | float          | R/W | 90      | 40279          |
| Swell_percentage_level        | Percentage over Nominal_Star_Voltage over which a Swell event is generated (default 110 %)                                                                                                                                                                                                                                                                                                                | float          | R/W | 110     | 40281          |
| Interruption_percentage_level | Percentage over Nominal_Star_Voltage under which an Interruption event is generated (default 10 %)                                                                                                                                                                                                                                                                                                        | float          | R/W | 10      | 40283          |
| Flicker_percentage_level      | Percentage over Nominal_Star_Voltage under which a Flicker event is generated (default 5 %)                                                                                                                                                                                                                                                                                                               | float          | R/W | 5       | 40285          |
| Minimum_duration_cutoff       | Sag, Swell or Interruption events must be above this cutoff to be displayed and saved [ms]                                                                                                                                                                                                                                                                                                                | unsigned short | R/W | 0       | 40287          |
| Modbus_TCP_port               | Porta server modbus TCP                                                                                                                                                                                                                                                                                                                                                                                   | unsigned short | R/W | 502     | 40288          |
| Wifi_STA_SSID_target_0        | WiFi STA Access point SSID 0                                                                                                                                                                                                                                                                                                                                                                              | char           | R/W | F       | 40289          |
| Wifi_STA_SSID_target_1        | WiFi STA Access point SSID 1                                                                                                                                                                                                                                                                                                                                                                              | char           | R/W | R       | 40290          |
| Wifi_STA_SSID_target_2        | WiFi STA Access point SSID 2                                                                                                                                                                                                                                                                                                                                                                              | char           | R/W | I       | 40291          |
| Wifi_STA_SSID_target_3        | WiFi STA Access point SSID 3                                                                                                                                                                                                                                                                                                                                                                              | char           | R/W | T       | 40292          |
| Wifi_STA_SSID_target_4        | WiFi STA Access point SSID 4                                                                                                                                                                                                                                                                                                                                                                              | char           | R/W | Z       | 40293          |
| Wifi_STA_SSID_target_5        | WiFi STA Access point SSID 5                                                                                                                                                                                                                                                                                                                                                                              | char           | R/W | !       | 40294          |
| Wifi_STA_SSID_target_6        | WiFi STA Access point SSID 6                                                                                                                                                                                                                                                                                                                                                                              | char           | R/W | B       | 40295          |
| Wifi_STA_SSID_target_7        | WiFi STA Access point SSID 7                                                                                                                                                                                                                                                                                                                                                                              | char           | R/W | o       | 40296          |
| Wifi_STA_SSID_target_8        | WiFi STA Access point SSID 8                                                                                                                                                                                                                                                                                                                                                                              | char           | R/W | x       | 40297          |
| Wifi_STA_SSID_target_9        | WiFi STA Access point SSID 9                                                                                                                                                                                                                                                                                                                                                                              | char           | R/W |         | 40298          |
| Wifi_STA_SSID_target_10       | WiFi STA Access point SSID 10                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | 7       | 40299          |
| Wifi_STA_SSID_target_11       | WiFi STA Access point SSID 11                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | 5       | 40300          |
| Wifi_STA_SSID_target_12       | WiFi STA Access point SSID 12                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | 3       | 40301          |
| Wifi_STA_SSID_target_13       | WiFi STA Access point SSID 13                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | 0       | 40302          |
| Wifi_STA_SSID_target_14       | WiFi STA Access point SSID 14                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | 0       | 40303          |
| Wifi_STA_SSID_target_15       | WiFi STA Access point SSID 15                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | P       | 40304          |
| Wifi_STA_SSID_target_16       | WiFi STA Access point SSID 16                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | U       | 40305          |
| Wifi_STA_SSID_target_17       | WiFi STA Access point SSID 17                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40306          |
| Wifi_STA_SSID_target_18       | WiFi STA Access point SSID 18                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40307          |
| Wifi_STA_SSID_target_19       | WiFi STA Access point SSID 19                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40308          |
| Wifi_STA_SSID_target_20       | WiFi STA Access point SSID 20                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40309          |
| Wifi_STA_SSID_target_21       | WiFi STA Access point SSID 21                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40310          |
| Wifi_STA_SSID_target_22       | WiFi STA Access point SSID 22                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40311          |
| Wifi_STA_SSID_target_23       | WiFi STA Access point SSID 23                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40312          |
| Wifi_STA_SSID_target_24       | WiFi STA Access point SSID 24                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40313          |
| Wifi_STA_SSID_target_25       | WiFi STA Access point SSID 25                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40314          |
| Wifi_STA_SSID_target_26       | WiFi STA Access point SSID 26                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40315          |
| Wifi_STA_SSID_target_27       | WiFi STA Access point SSID 27                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40316          |
| Wifi_STA_SSID_target_28       | WiFi STA Access point SSID 28                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40317          |
| Wifi_STA_SSID_target_29       | WiFi STA Access point SSID 29                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40318          |
| Wifi_STA_SSID_target_30       | WiFi STA Access point SSID 30                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40319          |
| Wifi_STA_SSID_target_31       | WiFi STA Access point SSID 31                                                                                                                                                                                                                                                                                                                                                                             | char           | R/W | \0      | 40320          |
| Wifi_STA_PASSWORD_target_0    | WiFi STA Access point Password 0                                                                                                                                                                                                                                                                                                                                                                          | char           | WO  | 3       | 40321          |
| Wifi_STA_PASSWORD_target_1    | WiFi STA Access point Password 1                                                                                                                                                                                                                                                                                                                                                                          | char           | WO  | 4       | 40322          |
| Wifi_STA_PASSWORD_target_2    | WiFi STA Access point Password 2                                                                                                                                                                                                                                                                                                                                                                          | char           | WO  | 7       | 40323          |
| Wifi_STA_PASSWORD_target_3    | WiFi STA Access point Password 3                                                                                                                                                                                                                                                                                                                                                                          | char           | WO  | 7       | 40324          |
| Wifi_STA_PASSWORD_target_4    | WiFi STA Access point Password 4                                                                                                                                                                                                                                                                                                                                                                          | char           | WO  | 1       | 40325          |
| Wifi_STA_PASSWORD_target_5    | WiFi STA Access point Password 5                                                                                                                                                                                                                                                                                                                                                                          | char           | WO  | 2       | 40326          |
| Wifi_STA_PASSWORD_target_6    | WiFi STA Access point Password 6                                                                                                                                                                                                                                                                                                                                                                          | char           | WO  | 1       | 40327          |
| Wifi_STA_PASSWORD_target_7    | WiFi STA Access point Password 7                                                                                                                                                                                                                                                                                                                                                                          | char           | WO  | 9       | 40328          |
| Wifi_STA_PASSWORD_target_8    | WiFi STA Access point Password 8                                                                                                                                                                                                                                                                                                                                                                          | char           | WO  | 3       | 40329          |
| Wifi_STA_PASSWORD_target_9    | WiFi STA Access point Password 9                                                                                                                                                                                                                                                                                                                                                                          | char           | WO  | 0       | 40330          |
| Wifi_STA_PASSWORD_target_10   | WiFi STA Access point Password 10                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | 6       | 40331          |
| Wifi_STA_PASSWORD_target_11   | WiFi STA Access point Password 11                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | 5       | 40332          |
| Wifi_STA_PASSWORD_target_12   | WiFi STA Access point Password 12                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | 6       | 40333          |
| Wifi_STA_PASSWORD_target_13   | WiFi STA Access point Password 13                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | 4       | 40334          |
| Wifi_STA_PASSWORD_target_14   | WiFi STA Access point Password 14                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | 7       | 40335          |
| Wifi_STA_PASSWORD_target_15   | WiFi STA Access point Password 15                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | 7       | 40336          |
| Wifi_STA_PASSWORD_target_16   | WiFi STA Access point Password 16                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | 6       | 40337          |
| Wifi_STA_PASSWORD_target_17   | WiFi STA Access point Password 17                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | 0       | 40338          |
| Wifi_STA_PASSWORD_target_18   | WiFi STA Access point Password 18                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | 0       | 40339          |
| Wifi_STA_PASSWORD_target_19   | WiFi STA Access point Password 19                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | 3       | 40340          |
| Wifi_STA_PASSWORD_target_20   | WiFi STA Access point Password 20                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40341          |
| Wifi_STA_PASSWORD_target_21   | WiFi STA Access point Password 21                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40342          |
| Wifi_STA_PASSWORD_target_22   | WiFi STA Access point Password 22                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40343          |
| Wifi_STA_PASSWORD_target_23   | WiFi STA Access point Password 23                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40344          |
| Wifi_STA_PASSWORD_target_24   | WiFi STA Access point Password 24                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40345          |
| Wifi_STA_PASSWORD_target_25   | WiFi STA Access point Password 25                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40346          |
| Wifi_STA_PASSWORD_target_26   | WiFi STA Access point Password 26                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40347          |
| Wifi_STA_PASSWORD_target_27   | WiFi STA Access point Password 27                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40348          |
| Wifi_STA_PASSWORD_target_28   | WiFi STA Access point Password 28                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40349          |
| Wifi_STA_PASSWORD_target_29   | WiFi STA Access point Password 29                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40350          |
| Wifi_STA_PASSWORD_target_30   | WiFi STA Access point Password 30                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40351          |
| Wifi_STA_PASSWORD_target_31   | WiFi STA Access point Password 31                                                                                                                                                                                                                                                                                                                                                                         | char           | WO  | \0      | 40352          |
| Wifi_STA_HOSTNAME_0           | WiFi STA HOSTNAME set 0                                                                                                                                                                                                                                                                                                                                                                                   | char           | RW  | E       | 40353          |

All versions

Only FULL version

- R/W legend:
- RO: Read only
  - WO: Write only
  - R/W: Read and write



| Register Name                       | Description                          | Register Type  | R/W | Default | Modbus Address |
|-------------------------------------|--------------------------------------|----------------|-----|---------|----------------|
| Wifi_STA_HOSTNAME_1                 | WiFi STA HOSTNAME set 1              | char           | R/W | M       | 40364          |
| Wifi_STA_HOSTNAME_2                 | WiFi STA HOSTNAME set 2              | char           | R/W | T       | 40365          |
| Wifi_STA_HOSTNAME_3                 | WiFi STA HOSTNAME set 3              | char           | R/W | 4       | 40366          |
| Wifi_STA_HOSTNAME_4                 | WiFi STA HOSTNAME set 4              | char           | R/W | 3       | 40367          |
| Wifi_STA_HOSTNAME_5                 | WiFi STA HOSTNAME set 5              | char           | R/W | 0       | 40368          |
| Wifi_STA_HOSTNAME_6                 | WiFi STA HOSTNAME set 6              | char           | R/W |         | 40369          |
| Wifi_STA_HOSTNAME_7                 | WiFi STA HOSTNAME set 7              | char           | R/W | W       | 40360          |
| Wifi_STA_HOSTNAME_8                 | WiFi STA HOSTNAME set 8              | char           | R/W | I       | 40361          |
| Wifi_STA_HOSTNAME_9                 | WiFi STA HOSTNAME set 9              | char           | R/W | F       | 40362          |
| Wifi_STA_HOSTNAME_10                | WiFi STA HOSTNAME set 10             | char           | R/W | I       | 40363          |
| Wifi_STA_HOSTNAME_11                | WiFi STA HOSTNAME set 11             | char           | R/W |         | 40364          |
| Wifi_STA_HOSTNAME_12                | WiFi STA HOSTNAME set 12             | char           | R/W | S       | 40365          |
| Wifi_STA_HOSTNAME_13                | WiFi STA HOSTNAME set 13             | char           | R/W | T       | 40366          |
| Wifi_STA_HOSTNAME_14                | WiFi STA HOSTNAME set 14             | char           | R/W | A       | 40367          |
| Wifi_STA_HOSTNAME_15                | WiFi STA HOSTNAME set 15             | char           | R/W | \0      | 40368          |
| Wifi_STA_HOSTNAME_16                | WiFi STA HOSTNAME set 16             | char           | R/W | \0      | 40369          |
| Wifi_STA_HOSTNAME_17                | WiFi STA HOSTNAME set 17             | char           | R/W | \0      | 40370          |
| Wifi_STA_HOSTNAME_18                | WiFi STA HOSTNAME set 18             | char           | R/W | \0      | 40371          |
| Wifi_STA_HOSTNAME_19                | WiFi STA HOSTNAME set 19             | char           | R/W | \0      | 40372          |
| Wifi_STA_HOSTNAME_20                | WiFi STA HOSTNAME set 20             | char           | R/W | \0      | 40373          |
| Wifi_STA_HOSTNAME_21                | WiFi STA HOSTNAME set 21             | char           | R/W | \0      | 40374          |
| Wifi_STA_HOSTNAME_22                | WiFi STA HOSTNAME set 22             | char           | R/W | \0      | 40375          |
| Wifi_STA_HOSTNAME_23                | WiFi STA HOSTNAME set 23             | char           | R/W | \0      | 40376          |
| Wifi_STA_HOSTNAME_24                | WiFi STA HOSTNAME set 24             | char           | R/W | \0      | 40377          |
| Wifi_STA_HOSTNAME_25                | WiFi STA HOSTNAME set 25             | char           | R/W | \0      | 40378          |
| Wifi_STA_HOSTNAME_26                | WiFi STA HOSTNAME set 26             | char           | R/W | \0      | 40379          |
| Wifi_STA_HOSTNAME_27                | WiFi STA HOSTNAME set 27             | char           | R/W | \0      | 40380          |
| Wifi_STA_HOSTNAME_28                | WiFi STA HOSTNAME set 28             | char           | R/W | \0      | 40381          |
| Wifi_STA_HOSTNAME_29                | WiFi STA HOSTNAME set 29             | char           | R/W | \0      | 40382          |
| Wifi_STA_HOSTNAME_30                | WiFi STA HOSTNAME set 30             | char           | R/W | \0      | 40383          |
| Wifi_STA_HOSTNAME_31                | WiFi STA HOSTNAME set 31             | char           | R/W | \0      | 40384          |
| Wifi_STA_IP_0                       | WiFi STA IP static (DHCP off) 0      | unsigned short | R/W | 192     | 40385          |
| Wifi_STA_IP_1                       | WiFi STA IP static (DHCP off) 1      | unsigned short | R/W | 168     | 40386          |
| Wifi_STA_IP_2                       | WiFi STA IP static (DHCP off) 2      | unsigned short | R/W | 178     | 40387          |
| Wifi_STA_IP_3                       | WiFi STA IP static (DHCP off) 3      | unsigned short | R/W | 200     | 40388          |
| Wifi_STA_Netmask_0                  | WiFi STA NETMASK static (DHCP off) 0 | unsigned short | R/W | 255     | 40389          |
| Wifi_STA_Netmask_1                  | WiFi STA NETMASK static (DHCP off) 1 | unsigned short | R/W | 255     | 40390          |
| Wifi_STA_Netmask_2                  | WiFi STA NETMASK static (DHCP off) 2 | unsigned short | R/W | 255     | 40391          |
| Wifi_STA_Netmask_3                  | WiFi STA NETMASK static (DHCP off) 3 | unsigned short | R/W | 0       | 40392          |
| Wifi_STA_Gateway_0                  | WiFi STA GATEWAY static (DHCP off) 0 | unsigned short | R/W | 192     | 40393          |
| Wifi_STA_Gateway_1                  | WiFi STA GATEWAY static (DHCP off) 1 | unsigned short | R/W | 168     | 40394          |
| Wifi_STA_Gateway_2                  | WiFi STA GATEWAY static (DHCP off) 2 | unsigned short | R/W | 178     | 40395          |
| Wifi_STA_Gateway_3                  | WiFi STA GATEWAY static (DHCP off) 3 | unsigned short | R/W | 200     | 40396          |
| Wifi_STA_IP_assigned_by_dhcp_0      | WiFi STA IP SET (DHCP on) 0          | unsigned short | R/W | 0       | 40397          |
| Wifi_STA_IP_assigned_by_dhcp_1      | WiFi STA IP SET (DHCP on) 1          | unsigned short | R/W | 0       | 40398          |
| Wifi_STA_IP_assigned_by_dhcp_2      | WiFi STA IP SET (DHCP on) 2          | unsigned short | R/W | 0       | 40399          |
| Wifi_STA_IP_assigned_by_dhcp_3      | WiFi STA IP SET (DHCP on) 3          | unsigned short | R/W | 0       | 40400          |
| Wifi_STA_Netmask_assigned_by_dhcp_0 | WiFi STA NETMASK SET (DHCP on) 0     | unsigned short | R/W | 0       | 40401          |
| Wifi_STA_Netmask_assigned_by_dhcp_1 | WiFi STA NETMASK SET (DHCP on) 1     | unsigned short | R/W | 0       | 40402          |
| Wifi_STA_Netmask_assigned_by_dhcp_2 | WiFi STA NETMASK SET (DHCP on) 2     | unsigned short | R/W | 0       | 40403          |
| Wifi_STA_Netmask_assigned_by_dhcp_3 | WiFi STA NETMASK SET (DHCP on) 3     | unsigned short | R/W | 0       | 40404          |
| Wifi_STA_Gateway_assigned_by_dhcp_0 | WiFi STA GATEWAY SET (DHCP on) 0     | unsigned short | R/W | 0       | 40405          |
| Wifi_STA_Gateway_assigned_by_dhcp_1 | WiFi STA GATEWAY SET (DHCP on) 1     | unsigned short | R/W | 0       | 40406          |
| Wifi_STA_Gateway_assigned_by_dhcp_2 | WiFi STA GATEWAY SET (DHCP on) 2     | unsigned short | R/W | 0       | 40407          |
| Wifi_STA_Gateway_assigned_by_dhcp_3 | WiFi STA GATEWAY SET (DHCP on) 3     | unsigned short | R/W | 0       | 40408          |
| Wifi_AP_SSID_0                      | WiFi AP SSID 0                       | char           | R/W | M       | 40409          |
| Wifi_AP_SSID_1                      | WiFi AP SSID 1                       | char           | R/W | Y       | 40410          |
| Wifi_AP_SSID_2                      | WiFi AP SSID 2                       | char           | R/W |         | 40411          |
| Wifi_AP_SSID_3                      | WiFi AP SSID 3                       | char           | R/W | E       | 40412          |
| Wifi_AP_SSID_4                      | WiFi AP SSID 4                       | char           | R/W | M       | 40413          |
| Wifi_AP_SSID_5                      | WiFi AP SSID 5                       | char           | R/W | T       | 40414          |
| Wifi_AP_SSID_6                      | WiFi AP SSID 6                       | char           | R/W |         | 40415          |
| Wifi_AP_SSID_7                      | WiFi AP SSID 7                       | char           | R/W | 1       | 40416          |
| Wifi_AP_SSID_8                      | WiFi AP SSID 8                       | char           | R/W | 3       | 40417          |
| Wifi_AP_SSID_9                      | WiFi AP SSID 9                       | char           | R/W | 0       | 40418          |
| Wifi_AP_SSID_10                     | WiFi AP SSID 10                      | char           | R/W | \0      | 40419          |
| Wifi_AP_SSID_11                     | WiFi AP SSID 11                      | char           | R/W | \0      | 40420          |
| Wifi_AP_SSID_12                     | WiFi AP SSID 12                      | char           | R/W | \0      | 40421          |
| Wifi_AP_SSID_13                     | WiFi AP SSID 13                      | char           | R/W | \0      | 40422          |
| Wifi_AP_SSID_14                     | WiFi AP SSID 14                      | char           | R/W | \0      | 40423          |
| Wifi_AP_SSID_15                     | WiFi AP SSID 15                      | char           | R/W | \0      | 40424          |
| Wifi_AP_SSID_16                     | WiFi AP SSID 16                      | char           | R/W | \0      | 40425          |
| Wifi_AP_SSID_17                     | WiFi AP SSID 17                      | char           | R/W | \0      | 40426          |
| Wifi_AP_SSID_18                     | WiFi AP SSID 18                      | char           | R/W | \0      | 40427          |
| Wifi_AP_SSID_19                     | WiFi AP SSID 19                      | char           | R/W | \0      | 40428          |
| Wifi_AP_SSID_20                     | WiFi AP SSID 20                      | char           | R/W | \0      | 40429          |
| Wifi_AP_SSID_21                     | WiFi AP SSID 21                      | char           | R/W | \0      | 40430          |
| Wifi_AP_SSID_22                     | WiFi AP SSID 22                      | char           | R/W | \0      | 40431          |
| Wifi_AP_SSID_23                     | WiFi AP SSID 23                      | char           | R/W | \0      | 40432          |
| Wifi_AP_SSID_24                     | WiFi AP SSID 24                      | char           | R/W | \0      | 40433          |
| Wifi_AP_SSID_25                     | WiFi AP SSID 25                      | char           | R/W | \0      | 40434          |
| Wifi_AP_SSID_26                     | WiFi AP SSID 26                      | char           | R/W | \0      | 40435          |
| Wifi_AP_SSID_27                     | WiFi AP SSID 27                      | char           | R/W | \0      | 40436          |
| Wifi_AP_SSID_28                     | WiFi AP SSID 28                      | char           | R/W | \0      | 40437          |
| Wifi_AP_SSID_29                     | WiFi AP SSID 29                      | char           | R/W | \0      | 40438          |
| Wifi_AP_SSID_30                     | WiFi AP SSID 30                      | char           | R/W | \0      | 40439          |
| Wifi_AP_SSID_31                     | WiFi AP SSID 31                      | char           | R/W | \0      | 40440          |
| Wifi_AP_PASSWORD_0                  | WiFi AP PASSWORD 0                   | char           | R/W | 1       | 40441          |
| Wifi_AP_PASSWORD_1                  | WiFi AP PASSWORD 1                   | char           | R/W | 2       | 40442          |
| Wifi_AP_PASSWORD_2                  | WiFi AP PASSWORD 2                   | char           | R/W | 3       | 40443          |
| Wifi_AP_PASSWORD_3                  | WiFi AP PASSWORD 3                   | char           | R/W | 4       | 40444          |
| Wifi_AP_PASSWORD_4                  | WiFi AP PASSWORD 4                   | char           | R/W | 5       | 40445          |
| Wifi_AP_PASSWORD_5                  | WiFi AP PASSWORD 5                   | char           | R/W | 6       | 40446          |
| Wifi_AP_PASSWORD_6                  | WiFi AP PASSWORD 6                   | char           | R/W | 7       | 40447          |
| Wifi_AP_PASSWORD_7                  | WiFi AP PASSWORD 7                   | char           | R/W | 8       | 40448          |
| Wifi_AP_PASSWORD_8                  | WiFi AP PASSWORD 8                   | char           | R/W | 9       | 40449          |
| Wifi_AP_PASSWORD_9                  | WiFi AP PASSWORD 9                   | char           | R/W | \0      | 40450          |
| Wifi_AP_PASSWORD_10                 | WiFi AP PASSWORD 10                  | char           | R/W | \0      | 40451          |
| Wifi_AP_PASSWORD_11                 | WiFi AP PASSWORD 11                  | char           | R/W | \0      | 40452          |
| Wifi_AP_PASSWORD_12                 | WiFi AP PASSWORD 12                  | char           | R/W | \0      | 40453          |
| Wifi_AP_PASSWORD_13                 | WiFi AP PASSWORD 13                  | char           | R/W | \0      | 40454          |
| Wifi_AP_PASSWORD_14                 | WiFi AP PASSWORD 14                  | char           | R/W | \0      | 40455          |
| Wifi_AP_PASSWORD_15                 | WiFi AP PASSWORD 15                  | char           | R/W | \0      | 40456          |
| Wifi_AP_PASSWORD_16                 | WiFi AP PASSWORD 16                  | char           | R/W | \0      | 40457          |
| Wifi_AP_PASSWORD_17                 | WiFi AP PASSWORD 17                  | char           | R/W | \0      | 40458          |
| Wifi_AP_PASSWORD_18                 | WiFi AP PASSWORD 18                  | char           | R/W | \0      | 40459          |
| Wifi_AP_PASSWORD_19                 | WiFi AP PASSWORD 19                  | char           | R/W | \0      | 40460          |
| Wifi_AP_PASSWORD_20                 | WiFi AP PASSWORD 20                  | char           | R/W | \0      | 40461          |
| Wifi_AP_PASSWORD_21                 | WiFi AP PASSWORD 21                  | char           | R/W | \0      | 40462          |
| Wifi_AP_PASSWORD_22                 | WiFi AP PASSWORD 22                  | char           | R/W | \0      | 40463          |
| Wifi_AP_PASSWORD_23                 | WiFi AP PASSWORD 23                  | char           | R/W | \0      | 40464          |
| Wifi_AP_PASSWORD_24                 | WiFi AP PASSWORD 24                  | char           | R/W | \0      | 40465          |
| Wifi_AP_PASSWORD_25                 | WiFi AP PASSWORD 25                  | char           | R/W | \0      | 40466          |
| Wifi_AP_PASSWORD_26                 | WiFi AP PASSWORD 26                  | char           | R/W | \0      | 40467          |
| Wifi_AP_PASSWORD_27                 | WiFi AP PASSWORD 27                  | char           | R/W | \0      | 40468          |
| Wifi_AP_PASSWORD_28                 | WiFi AP PASSWORD 28                  | char           | R/W | \0      | 40469          |
| Wifi_AP_PASSWORD_29                 | WiFi AP PASSWORD 29                  | char           | R/W | \0      | 40470          |
| Wifi_AP_PASSWORD_30                 | WiFi AP PASSWORD 30                  | char           | R/W | \0      | 40471          |
| Wifi_AP_PASSWORD_31                 | WiFi AP PASSWORD 31                  | char           | R/W | \0      | 40472          |
| Wifi_AP_HOSTNAME_0                  | WiFi AP HOSTNAME set 0               | char           | R/W | E       | 40473          |
| Wifi_AP_HOSTNAME_1                  | WiFi AP HOSTNAME set 1               | char           | R/W | M       | 40474          |

All versions

Only FULL version

- R/W legend:
- RO: Read only
  - WO: Write only
  - R/W: Read and write

EMT130\_MR Rev0



| Register Name                       | Description                                                                                                                                                                                     | Register Type  | R/W | Default | Modbus Address |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|---------|----------------|
| Wifi_AP_HOSTNAME_2                  | WiFi-AP HOSTNAME set 2                                                                                                                                                                          | char           | R/W | T       | 40475          |
| Wifi_AP_HOSTNAME_3                  | WiFi-AP HOSTNAME set 3                                                                                                                                                                          | char           | R/W | 1       | 40476          |
| Wifi_AP_HOSTNAME_4                  | WiFi-AP HOSTNAME set 4                                                                                                                                                                          | char           | R/W | 3       | 40477          |
| Wifi_AP_HOSTNAME_5                  | WiFi-AP HOSTNAME set 5                                                                                                                                                                          | char           | R/W | 0       | 40478          |
| Wifi_AP_HOSTNAME_6                  | WiFi-AP HOSTNAME set 6                                                                                                                                                                          | char           | R/W |         | 40479          |
| Wifi_AP_HOSTNAME_7                  | WiFi-AP HOSTNAME set 7                                                                                                                                                                          | char           | R/W | W       | 40480          |
| Wifi_AP_HOSTNAME_8                  | WiFi-AP HOSTNAME set 8                                                                                                                                                                          | char           | R/W | I       | 40481          |
| Wifi_AP_HOSTNAME_9                  | WiFi-AP HOSTNAME set 9                                                                                                                                                                          | char           | R/W | F       | 40482          |
| Wifi_AP_HOSTNAME_10                 | WiFi-AP HOSTNAME set 10                                                                                                                                                                         | char           | R/W | I       | 40483          |
| Wifi_AP_HOSTNAME_11                 | WiFi-AP HOSTNAME set 11                                                                                                                                                                         | char           | R/W |         | 40484          |
| Wifi_AP_HOSTNAME_12                 | WiFi-AP HOSTNAME set 12                                                                                                                                                                         | char           | R/W | A       | 40485          |
| Wifi_AP_HOSTNAME_13                 | WiFi-AP HOSTNAME set 13                                                                                                                                                                         | char           | R/W | P       | 40486          |
| Wifi_AP_HOSTNAME_14                 | WiFi-AP HOSTNAME set 14                                                                                                                                                                         | char           | R/W | 0       | 40487          |
| Wifi_AP_HOSTNAME_15                 | WiFi-AP HOSTNAME set 15                                                                                                                                                                         | char           | R/W | 0       | 40488          |
| Wifi_AP_HOSTNAME_16                 | WiFi-AP HOSTNAME set 16                                                                                                                                                                         | char           | R/W | 0       | 40489          |
| Wifi_AP_HOSTNAME_17                 | WiFi-AP HOSTNAME set 17                                                                                                                                                                         | char           | R/W | 0       | 40490          |
| Wifi_AP_HOSTNAME_18                 | WiFi-AP HOSTNAME set 18                                                                                                                                                                         | char           | R/W | 0       | 40491          |
| Wifi_AP_HOSTNAME_19                 | WiFi-AP HOSTNAME set 19                                                                                                                                                                         | char           | R/W | 0       | 40492          |
| Wifi_AP_HOSTNAME_20                 | WiFi-AP HOSTNAME set 20                                                                                                                                                                         | char           | R/W | 0       | 40493          |
| Wifi_AP_HOSTNAME_21                 | WiFi-AP HOSTNAME set 21                                                                                                                                                                         | char           | R/W | 0       | 40494          |
| Wifi_AP_HOSTNAME_22                 | WiFi-AP HOSTNAME set 22                                                                                                                                                                         | char           | R/W | 0       | 40495          |
| Wifi_AP_HOSTNAME_23                 | WiFi-AP HOSTNAME set 23                                                                                                                                                                         | char           | R/W | 0       | 40496          |
| Wifi_AP_HOSTNAME_24                 | WiFi-AP HOSTNAME set 24                                                                                                                                                                         | char           | R/W | 0       | 40497          |
| Wifi_AP_HOSTNAME_25                 | WiFi-AP HOSTNAME set 25                                                                                                                                                                         | char           | R/W | 0       | 40498          |
| Wifi_AP_HOSTNAME_26                 | WiFi-AP HOSTNAME set 26                                                                                                                                                                         | char           | R/W | 0       | 40499          |
| Wifi_AP_HOSTNAME_27                 | WiFi-AP HOSTNAME set 27                                                                                                                                                                         | char           | R/W | 0       | 40500          |
| Wifi_AP_HOSTNAME_28                 | WiFi-AP HOSTNAME set 28                                                                                                                                                                         | char           | R/W | 0       | 40501          |
| Wifi_AP_HOSTNAME_29                 | WiFi-AP HOSTNAME set 29                                                                                                                                                                         | char           | R/W | 0       | 40502          |
| Wifi_AP_HOSTNAME_30                 | WiFi-AP HOSTNAME set 30                                                                                                                                                                         | char           | R/W | 0       | 40503          |
| Wifi_AP_HOSTNAME_31                 | WiFi-AP HOSTNAME set 31                                                                                                                                                                         | char           | R/W | 0       | 40504          |
| Wifi_AP_IP_0                        | WiFi-AP IP 0                                                                                                                                                                                    | unsigned short | R/W | 192     | 40505          |
| Wifi_AP_IP_1                        | WiFi-AP IP 1                                                                                                                                                                                    | unsigned short | R/W | 168     | 40506          |
| Wifi_AP_IP_2                        | WiFi-AP IP 2                                                                                                                                                                                    | unsigned short | R/W | 4       | 40507          |
| Wifi_AP_IP_3                        | WiFi-AP IP 3                                                                                                                                                                                    | unsigned short | R/W | 1       | 40508          |
| Wifi_AP_Netmask_0                   | WiFi-AP NETMASK 0                                                                                                                                                                               | unsigned short | R/W | 255     | 40509          |
| Wifi_AP_Netmask_1                   | WiFi-AP NETMASK 1                                                                                                                                                                               | unsigned short | R/W | 255     | 40510          |
| Wifi_AP_Netmask_2                   | WiFi-AP NETMASK 2                                                                                                                                                                               | unsigned short | R/W | 255     | 40511          |
| Wifi_AP_Netmask_3                   | WiFi-AP NETMASK 3                                                                                                                                                                               | unsigned short | R/W | 0       | 40512          |
| Wifi_AP_Gateway_0                   | WiFi-AP GATEWAY 0                                                                                                                                                                               | unsigned short | R/W | 192     | 40513          |
| Wifi_AP_Gateway_1                   | WiFi-AP GATEWAY 1                                                                                                                                                                               | unsigned short | R/W | 168     | 40514          |
| Wifi_AP_Gateway_2                   | WiFi-AP GATEWAY 2                                                                                                                                                                               | unsigned short | R/W | 4       | 40515          |
| Wifi_AP_Gateway_3                   | WiFi-AP GATEWAY 3                                                                                                                                                                               | unsigned short | R/W | 1       | 40516          |
| Ethernet_HOSTNAME_0                 | Ethernet_HOSTNAME_0 set 0                                                                                                                                                                       | char           | R/W | E       | 40517          |
| Ethernet_HOSTNAME_1                 | Ethernet_HOSTNAME_0 set 1                                                                                                                                                                       | char           | R/W | M       | 40518          |
| Ethernet_HOSTNAME_2                 | Ethernet_HOSTNAME_0 set 2                                                                                                                                                                       | char           | R/W | T       | 40519          |
| Ethernet_HOSTNAME_3                 | Ethernet_HOSTNAME_0 set 3                                                                                                                                                                       | char           | R/W | 4       | 40520          |
| Ethernet_HOSTNAME_4                 | Ethernet_HOSTNAME_0 set 4                                                                                                                                                                       | char           | R/W | 3       | 40521          |
| Ethernet_HOSTNAME_5                 | Ethernet_HOSTNAME_0 set 5                                                                                                                                                                       | char           | R/W | 0       | 40522          |
| Ethernet_HOSTNAME_6                 | Ethernet_HOSTNAME_0 set 6                                                                                                                                                                       | char           | R/W |         | 40523          |
| Ethernet_HOSTNAME_7                 | Ethernet_HOSTNAME_0 set 7                                                                                                                                                                       | char           | R/W | E       | 40524          |
| Ethernet_HOSTNAME_8                 | Ethernet_HOSTNAME_0 set 8                                                                                                                                                                       | char           | R/W | T       | 40525          |
| Ethernet_HOSTNAME_9                 | Ethernet_HOSTNAME_0 set 9                                                                                                                                                                       | char           | R/W | H       | 40526          |
| Ethernet_HOSTNAME_10                | Ethernet_HOSTNAME_0 set 10                                                                                                                                                                      | char           | R/W | E       | 40527          |
| Ethernet_HOSTNAME_11                | Ethernet_HOSTNAME_0 set 11                                                                                                                                                                      | char           | R/W | R       | 40528          |
| Ethernet_HOSTNAME_12                | Ethernet_HOSTNAME_0 set 12                                                                                                                                                                      | char           | R/W | N       | 40529          |
| Ethernet_HOSTNAME_13                | Ethernet_HOSTNAME_0 set 13                                                                                                                                                                      | char           | R/W | E       | 40530          |
| Ethernet_HOSTNAME_14                | Ethernet_HOSTNAME_0 set 14                                                                                                                                                                      | char           | R/W | T       | 40531          |
| Ethernet_HOSTNAME_15                | Ethernet_HOSTNAME_0 set 15                                                                                                                                                                      | char           | R/W | 0       | 40532          |
| Ethernet_HOSTNAME_16                | Ethernet_HOSTNAME_0 set 16                                                                                                                                                                      | char           | R/W | 0       | 40533          |
| Ethernet_HOSTNAME_17                | Ethernet_HOSTNAME_0 set 17                                                                                                                                                                      | char           | R/W | 0       | 40534          |
| Ethernet_HOSTNAME_18                | Ethernet_HOSTNAME_0 set 18                                                                                                                                                                      | char           | R/W | 0       | 40535          |
| Ethernet_HOSTNAME_19                | Ethernet_HOSTNAME_0 set 19                                                                                                                                                                      | char           | R/W | 0       | 40536          |
| Ethernet_HOSTNAME_20                | Ethernet_HOSTNAME_0 set 20                                                                                                                                                                      | char           | R/W | 0       | 40537          |
| Ethernet_HOSTNAME_21                | Ethernet_HOSTNAME_0 set 21                                                                                                                                                                      | char           | R/W | 0       | 40538          |
| Ethernet_HOSTNAME_22                | Ethernet_HOSTNAME_0 set 22                                                                                                                                                                      | char           | R/W | 0       | 40539          |
| Ethernet_HOSTNAME_23                | Ethernet_HOSTNAME_0 set 23                                                                                                                                                                      | char           | R/W | 0       | 40540          |
| Ethernet_HOSTNAME_24                | Ethernet_HOSTNAME_0 set 24                                                                                                                                                                      | char           | R/W | 0       | 40541          |
| Ethernet_HOSTNAME_25                | Ethernet_HOSTNAME_0 set 25                                                                                                                                                                      | char           | R/W | 0       | 40542          |
| Ethernet_HOSTNAME_26                | Ethernet_HOSTNAME_0 set 26                                                                                                                                                                      | char           | R/W | 0       | 40543          |
| Ethernet_HOSTNAME_27                | Ethernet_HOSTNAME_0 set 27                                                                                                                                                                      | char           | R/W | 0       | 40544          |
| Ethernet_HOSTNAME_28                | Ethernet_HOSTNAME_0 set 28                                                                                                                                                                      | char           | R/W | 0       | 40545          |
| Ethernet_HOSTNAME_29                | Ethernet_HOSTNAME_0 set 29                                                                                                                                                                      | char           | R/W | 0       | 40546          |
| Ethernet_HOSTNAME_30                | Ethernet_HOSTNAME_0 set 30                                                                                                                                                                      | char           | R/W | 0       | 40547          |
| Ethernet_HOSTNAME_31                | Ethernet_HOSTNAME_0 set 31                                                                                                                                                                      | char           | R/W | 0       | 40548          |
| Ethernet_IP_0                       | ETHERNET IP static (DHCP off) 0                                                                                                                                                                 | unsigned short | R/W | 192     | 40549          |
| Ethernet_IP_1                       | ETHERNET IP static (DHCP off) 1                                                                                                                                                                 | unsigned short | R/W | 168     | 40550          |
| Ethernet_IP_2                       | ETHERNET IP static (DHCP off) 2                                                                                                                                                                 | unsigned short | R/W | 178     | 40551          |
| Ethernet_IP_3                       | ETHERNET IP static (DHCP off) 3                                                                                                                                                                 | unsigned short | R/W | 250     | 40552          |
| Ethernet_Netmask_0                  | ETHERNET NETMASK static (DHCP off) 0                                                                                                                                                            | unsigned short | R/W | 255     | 40553          |
| Ethernet_Netmask_1                  | ETHERNET NETMASK static (DHCP off) 1                                                                                                                                                            | unsigned short | R/W | 255     | 40554          |
| Ethernet_Netmask_2                  | ETHERNET NETMASK static (DHCP off) 2                                                                                                                                                            | unsigned short | R/W | 255     | 40555          |
| Ethernet_Netmask_3                  | ETHERNET NETMASK static (DHCP off) 3                                                                                                                                                            | unsigned short | R/W | 0       | 40556          |
| Ethernet_Gateway_0                  | ETHERNET GATEWAY static (DHCP off) 0                                                                                                                                                            | unsigned short | R/W | 192     | 40557          |
| Ethernet_Gateway_1                  | ETHERNET GATEWAY static (DHCP off) 1                                                                                                                                                            | unsigned short | R/W | 168     | 40558          |
| Ethernet_Gateway_2                  | ETHERNET GATEWAY static (DHCP off) 2                                                                                                                                                            | unsigned short | R/W | 178     | 40559          |
| Ethernet_Gateway_3                  | ETHERNET GATEWAY static (DHCP off) 3                                                                                                                                                            | unsigned short | R/W | 250     | 40560          |
| Ethernet_IP_assigned_by_dhcp_0      | ETHERNET IP ASSEGNATO (DHCP on) 0                                                                                                                                                               | unsigned short | R/W | 0       | 40561          |
| Ethernet_IP_assigned_by_dhcp_1      | ETHERNET IP ASSEGNATO (DHCP on) 1                                                                                                                                                               | unsigned short | R/W | 0       | 40562          |
| Ethernet_IP_assigned_by_dhcp_2      | ETHERNET IP ASSEGNATO (DHCP on) 2                                                                                                                                                               | unsigned short | R/W | 0       | 40563          |
| Ethernet_IP_assigned_by_dhcp_3      | ETHERNET IP ASSEGNATO (DHCP on) 3                                                                                                                                                               | unsigned short | R/W | 0       | 40564          |
| Ethernet_Netmask_assigned_by_dhcp_0 | ETHERNET NETMASK ASSEGNATO (DHCP on) 0                                                                                                                                                          | unsigned short | R/W | 0       | 40565          |
| Ethernet_Netmask_assigned_by_dhcp_1 | ETHERNET NETMASK ASSEGNATO (DHCP on) 1                                                                                                                                                          | unsigned short | R/W | 0       | 40566          |
| Ethernet_Netmask_assigned_by_dhcp_2 | ETHERNET NETMASK ASSEGNATO (DHCP on) 2                                                                                                                                                          | unsigned short | R/W | 0       | 40567          |
| Ethernet_Netmask_assigned_by_dhcp_3 | ETHERNET NETMASK ASSEGNATO (DHCP on) 3                                                                                                                                                          | unsigned short | R/W | 0       | 40568          |
| Ethernet_Gateway_assigned_by_dhcp_0 | ETHERNET GATEWAY ASSEGNATO (DHCP on) 0                                                                                                                                                          | unsigned short | R/W | 0       | 40569          |
| Ethernet_Gateway_assigned_by_dhcp_1 | ETHERNET GATEWAY ASSEGNATO (DHCP on) 1                                                                                                                                                          | unsigned short | R/W | 0       | 40570          |
| Ethernet_Gateway_assigned_by_dhcp_2 | ETHERNET GATEWAY ASSEGNATO (DHCP on) 2                                                                                                                                                          | unsigned short | R/W | 0       | 40571          |
| Ethernet_Gateway_assigned_by_dhcp_3 | ETHERNET GATEWAY ASSEGNATO (DHCP on) 3                                                                                                                                                          | unsigned short | R/W | 0       | 40572          |
| Communications_settings             | Bit 0: Ethernet DHCP<br>0 → Disabled (static address from registers)<br>1 → Enabled (default)<br>Bit 1: Wi-Fi STA DHCP<br>0 → Disabled (static address from registers)<br>1 → Enabled (default) | unsigned long  | R/W | 3       | 40573          |
| logging_register_address_1          | Modbus Address to do logging in position 1                                                                                                                                                      | unsigned short | R/W | 40000   | 40627          |
| logging_register_address_2          | Modbus Address to do logging in position 2                                                                                                                                                      | unsigned short | R/W | 40000   | 40628          |
| logging_register_address_3          | Modbus Address to do logging in position 3                                                                                                                                                      | unsigned short | R/W | 40000   | 40629          |
| logging_register_address_4          | Modbus Address to do logging in position 4                                                                                                                                                      | unsigned short | R/W | 40000   | 40630          |
| logging_register_address_5          | Modbus Address to do logging in position 5                                                                                                                                                      | unsigned short | R/W | 40000   | 40631          |
| logging_register_address_6          | Modbus Address to do logging in position 6                                                                                                                                                      | unsigned short | R/W | 40000   | 40632          |
| logging_register_address_7          | Modbus Address to do logging in position 7                                                                                                                                                      | unsigned short | R/W | 40000   | 40633          |
| logging_register_address_8          | Modbus Address to do logging in position 8                                                                                                                                                      | unsigned short | R/W | 40000   | 40634          |
| logging_register_address_9          | Modbus Address to do logging in position 9                                                                                                                                                      | unsigned short | R/W | 40000   | 40635          |
| logging_register_address_10         | Modbus Address to do logging in position 10                                                                                                                                                     | unsigned short | R/W | 40000   | 40636          |
| logging_register_address_11         | Modbus Address to do logging in position 11                                                                                                                                                     | unsigned short | R/W | 40000   | 40637          |
| logging_register_address_12         | Modbus Address to do logging in position 12                                                                                                                                                     | unsigned short | R/W | 40000   | 40638          |
| logging_register_address_13         | Modbus Address to do logging in position 13                                                                                                                                                     | unsigned short | R/W | 40000   | 40639          |
| logging_register_address_14         | Modbus Address to do logging in position 14                                                                                                                                                     | unsigned short | R/W | 40000   | 40640          |
| logging_register_address_15         | Modbus Address to do logging in position 15                                                                                                                                                     | unsigned short | R/W | 40000   | 40641          |
| logging_register_address_16         | Modbus Address to do logging in position 16                                                                                                                                                     | unsigned short | R/W | 40000   | 40642          |
| logging_register_address_17         | Modbus Address to do logging in position 17                                                                                                                                                     | unsigned short | R/W | 40000   | 40643          |





| Register Name                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Register Type    | R/W | Default | Modbus Address |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|---------|----------------|
| logging_register_address_18   | Modbus Address to do logging in position 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | unsigned short   | R/W | 40000   | 40644          |
| logging_register_address_19   | Modbus Address to do logging in position 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | unsigned short   | R/W | 40000   | 40645          |
| logging_register_address_20   | Modbus Address to do logging in position 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | unsigned short   | R/W | 40000   | 40646          |
| Pulses_per_kWh                | Pulses per kWh impulsive digital output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | unsigned short   | R/W | 1000    | 40651          |
| Energies                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |     |         |                |
| KWh1                          | Active energy line 1 [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | signed long long | R/W | 0       | 40653          |
| KWh2                          | Active energy line 2 [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | signed long long | R/W | 0       | 40657          |
| KWh3                          | Active energy line 3 [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | signed long long | R/W | 0       | 40661          |
| KWh_SUM                       | Active energy three phase [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | signed long long | R/W | 0       | 40665          |
| KWh1_Plus                     | Positive Active energy line 1 [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | signed long long | R/W | 0       | 40669          |
| KWh2_Plus                     | Positive Active energy line 2 [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | signed long long | R/W | 0       | 40673          |
| KWh3_Plus                     | Positive Active energy line 3 [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | signed long long | R/W | 0       | 40677          |
| KWh_SUM_Plus                  | Positive Active energy three phase [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | signed long long | R/W | 0       | 40681          |
| KWh1_Neg                      | Negative Active energy line 1 [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | signed long long | R/W | 0       | 40685          |
| KWh2_Neg                      | Negative Active energy line 2 [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | signed long long | R/W | 0       | 40689          |
| KWh3_Neg                      | Negative Active energy line 3 [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | signed long long | R/W | 0       | 40693          |
| KWh_SUM_Neg                   | Negative Active energy three phase [Wh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | signed long long | R/W | 0       | 40697          |
| KVARh1                        | Reactive energy line 1 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | signed long long | R/W | 0       | 40701          |
| KVARh2                        | Reactive energy line 2 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | signed long long | R/W | 0       | 40705          |
| KVARh3                        | Reactive energy line 3 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | signed long long | R/W | 0       | 40709          |
| KVARh_SUM                     | Reactive energy three phase [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | signed long long | R/W | 0       | 40713          |
| KVARh1_Inductive_positive     | Inductive (positive P) Reactive energy line 1 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | signed long long | R/W | 0       | 40717          |
| KVARh2_Inductive_positive     | Inductive (positive P) Reactive energy line 2 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | signed long long | R/W | 0       | 40721          |
| KVARh3_Inductive_positive     | Inductive (positive P) Reactive energy line 3 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | signed long long | R/W | 0       | 40725          |
| KVARh_SUM_Inductive_positive  | Inductive (positive P) Reactive energy three phase [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | signed long long | R/W | 0       | 40729          |
| KVARh1_Inductive_negative     | Inductive (negative P) Reactive energy line 1 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | signed long long | R/W | 0       | 40733          |
| KVARh2_Inductive_negative     | Inductive (negative P) Reactive energy line 2 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | signed long long | R/W | 0       | 40737          |
| KVARh3_Inductive_negative     | Inductive (negative P) Reactive energy line 3 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | signed long long | R/W | 0       | 40741          |
| KVARh_SUM_Inductive_negative  | Inductive (negative P) Reactive energy three phase [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | signed long long | R/W | 0       | 40745          |
| KVARh1_Capacitive_positive    | Capacitive (positive P) Reactive energy line 1 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | signed long long | R/W | 0       | 40749          |
| KVARh2_Capacitive_positive    | Capacitive (positive P) Reactive energy line 2 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | signed long long | R/W | 0       | 40753          |
| KVARh3_Capacitive_positive    | Capacitive (positive P) Reactive energy line 3 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | signed long long | R/W | 0       | 40757          |
| KVARh_SUM_Capacitive_positive | Capacitive (positive P) Reactive energy three phase [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | signed long long | R/W | 0       | 40761          |
| KVARh1_Capacitive_negative    | Capacitive (negative P) Reactive energy line 1 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | signed long long | R/W | 0       | 40765          |
| KVARh2_Capacitive_negative    | Capacitive (negative P) Reactive energy line 2 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | signed long long | R/W | 0       | 40769          |
| KVARh3_Capacitive_negative    | Capacitive (negative P) Reactive energy line 3 [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | signed long long | R/W | 0       | 40773          |
| KVARh_SUM_Capacitive_negative | Capacitive (negative P) Reactive energy three phase [VARh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | signed long long | R/W | 0       | 40777          |
| KVAh1                         | Apparent energy line 1 [VAh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | signed long long | R/W | 0       | 40781          |
| KVAh2                         | Apparent energy line 2 [VAh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | signed long long | R/W | 0       | 40785          |
| KVAh3                         | Apparent energy line 3 [VAh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | signed long long | R/W | 0       | 40789          |
| KVAh_SUM                      | Apparent energy three phase [VAh tenth]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | signed long long | R/W | 0       | 40793          |
| Wh_storage_count              | Number of Wh flash savings (every 20 seconds)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | signed long long | RO  | 0       | 40797          |
| Working_time                  | Working time of the device [mins]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | unsigned long    | RO  | 0       | 40801          |
| Realtime measurement          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |     |         |                |
| Status_1                      | FLASH_SETTINGS_ERROR->0x00000001<br>FLASH_CALIBRATION_ERROR->0x00000002<br>I1_OVER_RANGE->0x00000004<br>I1_UNDER_RANGE->0x00000008<br>I2_OVER_RANGE->0x00000010<br>I2_UNDER_RANGE->0x00000020<br>I3_OVER_RANGE->0x00000040<br>I3_UNDER_RANGE->0x00000080<br>V1_OVER_RANGE->0x00000100<br>V1_UNDER_RANGE->0x00000200<br>V2_OVER_RANGE->0x00000400<br>V2_UNDER_RANGE->0x00000800<br>V3_OVER_RANGE->0x00001000<br>V3_UNDER_RANGE->0x00002000<br>ZX_DETECTING->0x00004000<br>SWITCH_OPEN->0x00008000<br>WH_STORAGE_ERROR->0x00010000<br>BUZZER_ON->0x00020000<br>PF1_INDUCTIVE->0x10000000<br>PF2_INDUCTIVE->0x20000000<br>PF3_INDUCTIVE->0x40000000<br>COMMUNICATION_ERROR->0x80000000 | unsigned long    | RO  | 0       | 40829          |
| Status_2                      | EVENT_MONITORING_READY_L1N->0x00000020<br>EVENT_MONITORING_READY_L2N->0x00000040<br>EVENT_MONITORING_READY_L3N->0x00000080<br>ERROR_TEMP_SENSOR->0x00080000<br>ERROR_TOUCH_SENSOR->0x00100000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | unsigned long    | RO  | 0       | 40831          |
| Status_3                      | Bit 0: Wifi Sta Connected<br>0 --> Not Connected (default)<br>1 --> Connected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | unsigned long    | RO  | 0       | 40833          |
| Command                       | COMANDO_SALVATAGGIO_FLASH_SETTAGGI ->0xC1C0U<br>COMANDO_SALVATAGGIO_FLASH_AND_RESETS_SETTAGGI ->0xC1C1U<br>COMANDO_RESET ->0xC1A0U<br>COMANDO_SAVE_ENERGY ->0xBABAU<br>COMANDO_RESET_MAX_DEMAND ->0xF000U                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | unsigned short   | R/W | 0       | 40838          |
| V_L1_N                        | RMS star voltage L1-N [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | float            | RO  | 0       | 40839          |
| V_L2_N                        | RMS star voltage L2-N [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | float            | RO  | 0       | 40841          |
| V_L3_N                        | RMS star voltage L3-N [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | float            | RO  | 0       | 40843          |
| V_STAR_AVG                    | RMS star avg value voltage [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | float            | RO  | 0       | 40845          |
| V_L1_L2                       | RMS line voltage L1-L2 [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | float            | RO  | 0       | 40847          |
| V_L2_L3                       | RMS line voltage L2-L3 [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | float            | RO  | 0       | 40849          |
| V_L3_L1                       | RMS line voltage L3-L1 [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | float            | RO  | 0       | 40851          |
| V_LINE_AVG                    | RMS line avg value voltage [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | float            | RO  | 0       | 40853          |
| I_L1                          | RMS line current L1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | float            | RO  | 0       | 40855          |
| I_L2                          | RMS line current L2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | float            | RO  | 0       | 40857          |
| I_L3                          | RMS line current L3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | float            | RO  | 0       | 40859          |
| I_N                           | RMS line current N (if 1 or 2 TA connection, I_N = 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | float            | RO  | 0       | 40861          |
| I_AVG                         | RMS avg value current (excluding neutral current I_N)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | float            | RO  | 0       | 40863          |
| P1                            | RMS active power line 1 [W]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | float            | RO  | 0       | 40865          |
| P2                            | RMS active power line 2 [W]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | float            | RO  | 0       | 40867          |
| P3                            | RMS active power line 3 [W]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | float            | RO  | 0       | 40869          |
| P_SUM                         | RMS sum active power [W]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | float            | RO  | 0       | 40871          |
| Q1                            | RMS reactive power line 1 [VAR]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | float            | RO  | 0       | 40873          |
| Q2                            | RMS reactive power line 2 [VAR]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | float            | RO  | 0       | 40875          |
| Q3                            | RMS reactive power line 3 [VAR]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | float            | RO  | 0       | 40877          |
| Q_SUM                         | RMS sum reactive power [VAR]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | float            | RO  | 0       | 40879          |
| S1                            | RMS apparent power line 1 [VAR]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | float            | RO  | 0       | 40881          |
| S2                            | RMS apparent power line 2 [VAR]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | float            | RO  | 0       | 40883          |
| S3                            | RMS apparent power line 3 [VAR]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | float            | RO  | 0       | 40885          |
| S_SUM                         | RMS sum apparent power [VAR]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | float            | RO  | 0       | 40887          |
| PF1                           | Power Factor line 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | float            | RO  | 0       | 40889          |
| PF2                           | Power Factor line 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | float            | RO  | 0       | 40891          |
| PF3                           | Power Factor line 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | float            | RO  | 0       | 40893          |
| PF_3PH                        | Three Phase Power Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | float            | RO  | 0       | 40895          |
| CF1                           | Crest Factor line 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | float            | RO  | 0       | 40897          |
| CF2                           | Crest Factor line 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | float            | RO  | 0       | 40899          |
| CF3                           | Crest Factor line 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | float            | RO  | 0       | 40901          |
| CF_N                          | Crest Factor Neutral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | float            | RO  | 0       | 40903          |
| Frequency                     | Frequency [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | float            | RO  | 0       | 40905          |
| V_L1_N_peak                   | Star voltage L1-N peak [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | float            | R/W | 0       | 40907          |
| V_L2_N_peak                   | Star voltage L2-N peak [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | float            | R/W | 0       | 40909          |
| V_L3_N_peak                   | Star voltage L3-N peak [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | float            | R/W | 0       | 40911          |
| V_L1_L2_peak                  | Line voltage L1-L2 peak [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | float            | R/W | 0       | 40913          |
| V_L2_L3_peak                  | Line voltage L2-L3 peak [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | float            | R/W | 0       | 40915          |
| V_L3_L1_peak                  | Line voltage L3-L1 peak [V]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | float            | R/W | 0       | 40917          |
| I_L1_peak                     | L1 current peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | float            | R/W | 0       | 40919          |

|  |                   |
|--|-------------------|
|  | All versions      |
|  | Only FULL version |

R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

EMT130\_MR Rev0



| Register Name                  | Description                                                                                    | Register Type  | R/W | Default | Modbus Address |
|--------------------------------|------------------------------------------------------------------------------------------------|----------------|-----|---------|----------------|
| L2_peak                        | L2 current peak                                                                                | float          | R/W | 0       | 40921          |
| L3_peak                        | L3 current peak                                                                                | float          | R/W | 0       | 40923          |
| L_N_peak                       | N current peak                                                                                 | float          | R/W | 0       | 40925          |
| TAN_FI_1                       | TangentBline 1 (+ inductive - capacitive)                                                      | float          | RO  | 0       | 40989          |
| TAN_FI_2                       | TangentBline 2 (+ inductive - capacitive)                                                      | float          | RO  | 0       | 40991          |
| TAN_FI_3                       | TangentBline 3 (+ inductive - capacitive)                                                      | float          | RO  | 0       | 40993          |
| TAN_FI_AVG                     | Average TangentB(+ inductive - capacitive)                                                     | float          | RO  | 0       | 40995          |
| Phase_Order                    | L1_L2_L3 = 0; L1_L3_L2 = 1                                                                     | float          | RO  | 0       | 40997          |
| Internal_temperature           | Internal Temperature of the microcontroller [°C]                                               | float          | RO  | 0       | 40999          |
| Average, MAX and minimum value |                                                                                                |                |     |         |                |
| V_L1_N_RMS_AVG                 | Star voltage L1 N RMS average [V] over "seconds for mean RMS"                                  | float          | R/W | 0       | 41001          |
| V_L1_N_RMS_MAX                 | Star voltage L1 N MAX RMS [V] over last "seconds for MAX RMS"                                  | float          | R/W | 0       | 41003          |
| V_L1_N_RMS_min                 | Star voltage L1 N Min RMS [V] over last "seconds for min RMS"                                  | float          | R/W | 100000  | 41005          |
| V_L2_N_RMS_AVG                 | Star voltage L2 N RMS average [V] over "seconds for mean RMS"                                  | float          | R/W | 0       | 41007          |
| V_L2_N_RMS_MAX                 | Star voltage L2 N MAX RMS [V] over last "seconds for MAX RMS"                                  | float          | R/W | 0       | 41009          |
| V_L2_N_RMS_min                 | Star voltage L2 N Min RMS [V] over last "seconds for min RMS"                                  | float          | R/W | 100000  | 41011          |
| V_L3_N_RMS_AVG                 | Star voltage L3 N RMS average [V] over "seconds for mean RMS"                                  | float          | R/W | 0       | 41013          |
| V_L3_N_RMS_MAX                 | Star voltage L3 N MAX RMS [V] over last "seconds for MAX RMS"                                  | float          | R/W | 0       | 41015          |
| V_L3_N_RMS_min                 | Star voltage L3 N Min RMS [V] over last "seconds for min RMS"                                  | float          | R/W | 100000  | 41017          |
| V_STAR_AVG_RMS_AVG             | Star voltage AVG RMS average [V] over "seconds for mean RMS"                                   | float          | R/W | 0       | 41019          |
| V_STAR_AVG_RMS_MAX             | Star voltage AVG MAX RMS [V] over last "seconds for MAX RMS"                                   | float          | R/W | 0       | 41021          |
| V_STAR_AVG_RMS_min             | Star voltage AVG Min RMS [V] over last "seconds for min RMS"                                   | float          | R/W | 100000  | 41023          |
| V_L1_L2_RMS_AVG                | Line voltage L1-Line voltage L2-Line voltage L3-L1 RMS average [V] over "seconds for mean RMS" | float          | R/W | 0       | 41025          |
| V_L1_L2_RMS_MAX                | Line voltage L1-Line voltage L2-Line voltage L3-L1 MAX RMS [V] over last "seconds for MAX RMS" | float          | R/W | 0       | 41027          |
| V_L1_L2_RMS_min                | Line voltage L1-Line voltage L2-Line voltage L3-L1 Min RMS [V] over last "seconds for min RMS" | float          | R/W | 100000  | 41029          |
| V_L2_L3_RMS_AVG                | Line voltage L2-Line voltage L3-L1 RMS average [V] over "seconds for mean RMS"                 | float          | R/W | 0       | 41031          |
| V_L2_L3_RMS_MAX                | Line voltage L2-Line voltage L3-L1 MAX RMS [V] over last "seconds for MAX RMS"                 | float          | R/W | 0       | 41033          |
| V_L2_L3_RMS_min                | Line voltage L2-Line voltage L3-L1 Min RMS [V] over last "seconds for min RMS"                 | float          | R/W | 100000  | 41035          |
| V_L3_L1_RMS_AVG                | Line voltage L3-L1 RMS average [V] over "seconds for mean RMS"                                 | float          | R/W | 0       | 41037          |
| V_L3_L1_RMS_MAX                | Line voltage L3-L1 MAX RMS [V] over last "seconds for MAX RMS"                                 | float          | R/W | 0       | 41039          |
| V_L3_L1_RMS_min                | Line voltage L3-L1 Min RMS [V] over last "seconds for min RMS"                                 | float          | R/W | 100000  | 41041          |
| V_LINE_AVG_RMS_AVG             | Line voltage AVG RMS average [V] over "seconds for mean RMS"                                   | float          | R/W | 0       | 41043          |
| V_LINE_AVG_RMS_MAX             | Line voltage AVG MAX RMS [V] over last "seconds for MAX RMS"                                   | float          | R/W | 0       | 41045          |
| V_LINE_AVG_RMS_min             | Line voltage AVG Min RMS [V] over last "seconds for min RMS"                                   | float          | R/W | 100000  | 41047          |
| I_L1_RMS_AVG                   | L1 RMS average over "seconds for mean RMS"                                                     | float          | R/W | 0       | 41049          |
| I_L1_RMS_MAX                   | L1 MAX RMS over last "seconds for MAX RMS"                                                     | float          | R/W | 0       | 41051          |
| I_L1_RMS_min                   | L1 Min RMS over last "seconds for min RMS"                                                     | float          | R/W | 100000  | 41053          |
| I_L2_RMS_AVG                   | L2 RMS average over "seconds for mean RMS"                                                     | float          | R/W | 0       | 41055          |
| I_L2_RMS_MAX                   | L2 MAX RMS over last "seconds for MAX RMS"                                                     | float          | R/W | 0       | 41057          |
| I_L2_RMS_min                   | L2 Min RMS over last "seconds for min RMS"                                                     | float          | R/W | 100000  | 41059          |
| I_L3_RMS_AVG                   | L3 RMS average over "seconds for mean RMS"                                                     | float          | R/W | 0       | 41061          |
| I_L3_RMS_MAX                   | L3 MAX RMS over last "seconds for MAX RMS"                                                     | float          | R/W | 0       | 41063          |
| I_L3_RMS_min                   | L3 Min RMS over last "seconds for min RMS"                                                     | float          | R/W | 100000  | 41065          |
| I_N_RMS_AVG                    | N RMS average over "seconds for mean RMS"                                                      | float          | R/W | 0       | 41067          |
| I_N_RMS_MAX                    | N MAX RMS over last "seconds for MAX RMS"                                                      | float          | R/W | 0       | 41069          |
| I_N_RMS_min                    | N Min RMS over last "seconds for min RMS"                                                      | float          | R/W | 100000  | 41071          |
| I_AVG_RMS_AVG                  | I AVG RMS average over "seconds for mean RMS"                                                  | float          | R/W | 0       | 41073          |
| I_AVG_RMS_MAX                  | I AVG MAX RMS over last "seconds for MAX RMS"                                                  | float          | R/W | 0       | 41075          |
| I_AVG_RMS_min                  | I AVG Min RMS over last "seconds for min RMS"                                                  | float          | R/W | 100000  | 41077          |
| P1_RMS_AVG                     | P1 RMS average [W] over "seconds for mean RMS"                                                 | float          | R/W | 0       | 41079          |
| P1_RMS_MAX                     | P1 MAX RMS [W] over last "seconds for MAX RMS"                                                 | float          | R/W | 0       | 41081          |
| P1_RMS_min                     | P1 Min RMS [W] over last "seconds for min RMS"                                                 | float          | R/W | 100000  | 41083          |
| P2_RMS_AVG                     | P2 RMS average [W] over "seconds for mean RMS"                                                 | float          | R/W | 0       | 41085          |
| P2_RMS_MAX                     | P2 MAX RMS [W] over last "seconds for MAX RMS"                                                 | float          | R/W | 0       | 41087          |
| P2_RMS_min                     | P2 Min RMS [W] over last "seconds for min RMS"                                                 | float          | R/W | 100000  | 41089          |
| P3_RMS_AVG                     | P3 RMS average [W] over "seconds for mean RMS"                                                 | float          | R/W | 0       | 41091          |
| P3_RMS_MAX                     | P3 MAX RMS [W] over last "seconds for MAX RMS"                                                 | float          | R/W | 0       | 41093          |
| P3_RMS_min                     | P3 Min RMS [W] over last "seconds for min RMS"                                                 | float          | R/W | 100000  | 41095          |
| P_SUM_RMS_AVG                  | P SUM RMS average [W] over "seconds for mean RMS"                                              | float          | R/W | 0       | 41097          |
| P_SUM_RMS_MAX                  | P SUM MAX RMS [W] over last "seconds for MAX RMS"                                              | float          | R/W | 0       | 41099          |
| P_SUM_RMS_min                  | P SUM Min RMS [W] over last "seconds for min RMS"                                              | float          | R/W | 100000  | 41101          |
| Q1_RMS_AVG                     | Q1 RMS average [VAR] over "seconds for mean RMS"                                               | float          | R/W | 0       | 41103          |
| Q1_RMS_MAX                     | Q1 MAX RMS [VAR] over last "seconds for MAX RMS"                                               | float          | R/W | 0       | 41105          |
| Q1_RMS_min                     | Q1 Min RMS [VAR] over last "seconds for min RMS"                                               | float          | R/W | 100000  | 41107          |
| Q2_RMS_AVG                     | Q2 RMS average [VAR] over "seconds for mean RMS"                                               | float          | R/W | 0       | 41109          |
| Q2_RMS_MAX                     | Q2 MAX RMS [VAR] over last "seconds for MAX RMS"                                               | float          | R/W | 0       | 41111          |
| Q2_RMS_min                     | Q2 Min RMS [VAR] over last "seconds for min RMS"                                               | float          | R/W | 100000  | 41113          |
| Q3_RMS_AVG                     | Q3 RMS average [VAR] over "seconds for mean RMS"                                               | float          | R/W | 0       | 41115          |
| Q3_RMS_MAX                     | Q3 MAX RMS [VAR] over last "seconds for MAX RMS"                                               | float          | R/W | 0       | 41117          |
| Q3_RMS_min                     | Q3 Min RMS [VAR] over last "seconds for min RMS"                                               | float          | R/W | 100000  | 41119          |
| Q_SUM_RMS_AVG                  | Q SUM RMS average [VAR] over "seconds for mean RMS"                                            | float          | R/W | 0       | 41121          |
| Q_SUM_RMS_MAX                  | Q SUM MAX RMS [VAR] over last "seconds for MAX RMS"                                            | float          | R/W | 0       | 41123          |
| Q_SUM_RMS_min                  | Q SUM Min RMS [VAR] over last "seconds for min RMS"                                            | float          | R/W | 100000  | 41125          |
| S1_RMS_AVG                     | S1 RMS average [VA] over "seconds for mean RMS"                                                | float          | R/W | 0       | 41127          |
| S1_RMS_MAX                     | S1 MAX RMS [VA] over last "seconds for MAX RMS"                                                | float          | R/W | 0       | 41129          |
| S1_RMS_min                     | S1 Min RMS [VA] over last "seconds for min RMS"                                                | float          | R/W | 100000  | 41131          |
| S2_RMS_AVG                     | S2 RMS average [VA] over "seconds for mean RMS"                                                | float          | R/W | 0       | 41133          |
| S2_RMS_MAX                     | S2 MAX RMS [VA] over last "seconds for MAX RMS"                                                | float          | R/W | 0       | 41135          |
| S2_RMS_min                     | S2 Min RMS [VA] over last "seconds for min RMS"                                                | float          | R/W | 100000  | 41137          |
| S3_RMS_AVG                     | S3 RMS average [VA] over "seconds for mean RMS"                                                | float          | R/W | 0       | 41139          |
| S3_RMS_MAX                     | S3 MAX RMS [VA] over last "seconds for MAX RMS"                                                | float          | R/W | 0       | 41141          |
| S3_RMS_min                     | S3 Min RMS [VA] over last "seconds for min RMS"                                                | float          | R/W | 100000  | 41143          |
| S_SUM_RMS_AVG                  | S SUM RMS average [VA] over "seconds for mean RMS"                                             | float          | R/W | 0       | 41145          |
| S_SUM_RMS_MAX                  | S SUM MAX RMS [VA] over last "seconds for MAX RMS"                                             | float          | R/W | 0       | 41147          |
| S_SUM_RMS_min                  | S SUM Min RMS [VA] over last "seconds for min RMS"                                             | float          | R/W | 100000  | 41149          |
| PF1_RMS_AVG                    | PF1 RMS average over "seconds for mean RMS"                                                    | float          | R/W | 0       | 41151          |
| PF1_RMS_MAX                    | PF1 MAX RMS over last "seconds for MAX RMS"                                                    | float          | R/W | 0       | 41153          |
| PF1_RMS_min                    | PF1 Min RMS over last "seconds for min RMS"                                                    | float          | R/W | 100000  | 41155          |
| PF2_RMS_AVG                    | PF2 RMS average over "seconds for mean RMS"                                                    | float          | R/W | 0       | 41157          |
| PF2_RMS_MAX                    | PF2 MAX RMS over last "seconds for MAX RMS"                                                    | float          | R/W | 0       | 41159          |
| PF2_RMS_min                    | PF2 Min RMS over last "seconds for min RMS"                                                    | float          | R/W | 100000  | 41161          |
| PF3_RMS_AVG                    | PF3 RMS average over "seconds for mean RMS"                                                    | float          | R/W | 0       | 41163          |
| PF3_RMS_MAX                    | PF3 MAX RMS over last "seconds for MAX RMS"                                                    | float          | R/W | 0       | 41165          |
| PF3_RMS_min                    | PF3 Min RMS over last "seconds for min RMS"                                                    | float          | R/W | 100000  | 41167          |
| PF_SUM_RMS_AVG                 | PF SUM RMS average over "seconds for mean RMS"                                                 | float          | R/W | 0       | 41169          |
| PF_SUM_RMS_MAX                 | PF SUM MAX RMS over last "seconds for MAX RMS"                                                 | float          | R/W | 0       | 41171          |
| PF_SUM_RMS_min                 | PF SUM Min RMS over last "seconds for min RMS"                                                 | float          | R/W | 100000  | 41173          |
| CF1_RMS_AVG                    | CF1 RMS average over "seconds for mean RMS"                                                    | float          | R/W | 0       | 41175          |
| CF1_RMS_MAX                    | CF1 MAX RMS over last "seconds for MAX RMS"                                                    | float          | R/W | 0       | 41177          |
| CF1_RMS_min                    | CF1 Min RMS over last "seconds for min RMS"                                                    | float          | R/W | 100000  | 41179          |
| CF2_RMS_AVG                    | CF2 RMS average over "seconds for mean RMS"                                                    | float          | R/W | 0       | 41181          |
| CF2_RMS_MAX                    | CF2 MAX RMS over last "seconds for MAX RMS"                                                    | float          | R/W | 0       | 41183          |
| CF2_RMS_min                    | CF2 Min RMS over last "seconds for min RMS"                                                    | float          | R/W | 100000  | 41185          |
| CF3_RMS_AVG                    | CF3 RMS average over "seconds for mean RMS"                                                    | float          | R/W | 0       | 41187          |
| CF3_RMS_MAX                    | CF3 MAX RMS over last "seconds for MAX RMS"                                                    | float          | R/W | 0       | 41189          |
| CF3_RMS_min                    | CF3 Min RMS over last "seconds for min RMS"                                                    | float          | R/W | 100000  | 41191          |
| CF_N_RMS_AVG                   | CF N RMS average over "seconds for mean RMS"                                                   | float          | R/W | 0       | 41193          |
| CF_N_RMS_MAX                   | CF N MAX RMS over last "seconds for MAX RMS"                                                   | float          | R/W | 0       | 41195          |
| CF_N_RMS_min                   | CF N Min RMS over last "seconds for min RMS"                                                   | float          | R/W | 100000  | 41197          |
| Frequency_RMS_AVG              | Frequency average over "seconds for mean RMS"                                                  | float          | R/W | 0       | 41199          |
| Frequency_RMS_MAX              | Frequency MAX over last "seconds for MAX RMS"                                                  | float          | R/W | 0       | 41201          |
| Frequency_RMS_min              | Frequency Min over last "seconds for min RMS"                                                  | float          | R/W | 100000  | 41203          |
| P1_MaxDemand                   | Max Demand over "minute for Max demand" for P1 for current month                               | float          | RO  | 0       | 41213          |
| P2_MaxDemand                   | Max Demand over "minute for Max demand" for P2 for current month                               | float          | RO  | 0       | 41215          |
| P3_MaxDemand                   | Max Demand over "minute for Max demand" for P3 for current month                               | float          | RO  | 0       | 41217          |
| P_SUM_MaxDemand                | Max Demand over "minute for Max demand" for P three phase for current month                    | float          | RO  | 0       | 41219          |
| Month_of_P1_MaxDemand          | Month at which arises Max Demand over "minute for Max demand" for P1 for current month         | unsigned short | RO  | 0       | 41221          |
| Day_of_P1_MaxDemand            | Day at which arises Max Demand over "minute for Max demand" for P1 for current month           | unsigned short | RO  | 0       | 41222          |
| Hour_of_P1_MaxDemand           | Hour at which arises Max Demand over "minute for Max demand" for P1 for current month          | unsigned short | RO  | 0       | 41223          |
| Minute_of_P1_MaxDemand         | Minute at which arises Max Demand over "minute for Max demand" for P1 for current month        | unsigned short | RO  | 0       | 41224          |



| Register Name                | Description                                                                                | Register Type  | R/W | Default | Modbus Address |
|------------------------------|--------------------------------------------------------------------------------------------|----------------|-----|---------|----------------|
| Month of P2 MaxDemand        | Month at which arises Max Demand over "minute for Max demand" for P2 for current month     | unsigned short | R/W | 0       | 41225          |
| Day of P2 MaxDemand          | Day at which arises Max Demand over "minute for Max demand" for P2 for current month       | unsigned short | R/W | 0       | 41226          |
| Hour of P2 MaxDemand         | Hour at which arises Max Demand over "minute for Max demand" for P2 for current month      | unsigned short | R/W | 0       | 41227          |
| Minute of P2 MaxDemand       | Minute at which arises Max Demand over "minute for Max demand" for P2 for current month    | unsigned short | R/W | 0       | 41228          |
| Month of P3 MaxDemand        | Month at which arises Max Demand over "minute for Max demand" for P3 for current month     | unsigned short | R/W | 0       | 41229          |
| Day of P3 MaxDemand          | Day at which arises Max Demand over "minute for Max demand" for P3 for current month       | unsigned short | R/W | 0       | 41230          |
| Hour of P3 MaxDemand         | Hour at which arises Max Demand over "minute for Max demand" for P3 for current month      | unsigned short | R/W | 0       | 41231          |
| Minute of P3 MaxDemand       | Minute at which arises Max Demand over "minute for Max demand" for P3 for current month    | unsigned short | R/W | 0       | 41232          |
| Month of P SUM MaxDemand     | Month at which arises Max Demand over "minute for Max demand" for P SUM for current month  | unsigned short | R/W | 0       | 41233          |
| Day of P SUM MaxDemand       | Day at which arises Max Demand over "minute for Max demand" for P SUM for current month    | unsigned short | R/W | 0       | 41234          |
| Hour of P SUM MaxDemand      | Hour at which arises Max Demand over "minute for Max demand" for P SUM for current month   | unsigned short | R/W | 0       | 41235          |
| Minute of P SUM MaxDemand    | Minute at which arises Max Demand over "minute for Max demand" for P SUM for current month | unsigned short | R/W | 0       | 41236          |
| Year                         | RTC : year (2000-2099)                                                                     | unsigned short | R/W | 2024    | 41237          |
| Month                        | RTC : month (1-12)                                                                         | unsigned short | R/W | 10      | 41238          |
| Day                          | RTC : day month (1-31)                                                                     | unsigned short | R/W | 17      | 41239          |
| Hour                         | RTC : hour (0-23)                                                                          | unsigned short | R/W | 16      | 41240          |
| Minute                       | RTC : minute (0-59)                                                                        | unsigned short | R/W | 7       | 41241          |
| Seconds                      | RTC : second (0-59)                                                                        | unsigned short | R/W | 45      | 41242          |
| Harmonics and Interharmonics |                                                                                            |                |     |         |                |
| Efficiency                   | Calculate efficiency of Phase 1 compared to Phase 2                                        | float          | RO  | 0       | 41253          |
| Voltage_unbalance            | Voltage Unbalance of the three phase system                                                | float          | RO  | 0       | 41255          |
| K_factor_I1                  | K-factor for I1, see IEEE Standard 1100-1992                                               | float          | RO  | 0       | 41257          |
| K_factor_I2                  | K-factor for I2, see IEEE Standard 1100-1992                                               | float          | RO  | 0       | 41259          |
| K_factor_I3                  | K-factor for I3, see IEEE Standard 1100-1992                                               | float          | RO  | 0       | 41261          |
| DPF1                         | Distortion Power Factor line 1 (+ inductive, - capacitive)                                 | float          | RO  | 0       | 41263          |
| DPF2                         | Distortion Power Factor line 2 (+ inductive, - capacitive)                                 | float          | RO  | 0       | 41265          |
| DPF3                         | Distortion Power Factor line 3 (+ inductive, - capacitive)                                 | float          | RO  | 0       | 41267          |
| DPF_N                        | Neutral Distortion Power Factor (+ inductive, - capacitive)                                | float          | RO  | 0       | 41269          |
| THD_V_L1                     | THD Star Voltage L1                                                                        | float          | RO  | 0       | 41271          |
| THD_V_L2                     | THD Star Voltage L2                                                                        | float          | RO  | 0       | 41273          |
| THD_V_L3                     | THD Star Voltage L3                                                                        | float          | RO  | 0       | 41275          |
| THD_V_L12                    | THD Line Voltage L1-L2                                                                     | float          | RO  | 0       | 41277          |
| THD_V_L23                    | THD Line Voltage L2-L3                                                                     | float          | RO  | 0       | 41279          |
| THD_V_L31                    | THD Line Voltage L3-L1                                                                     | float          | RO  | 0       | 41281          |
| THD_I_L1                     | THD Line Current L1                                                                        | float          | RO  | 0       | 41283          |
| THD_I_L2                     | THD Line Current L2                                                                        | float          | RO  | 0       | 41285          |
| THD_I_L3                     | THD Line Current L3                                                                        | float          | RO  | 0       | 41287          |
| THD_I_N                      | THD Neutral Current                                                                        | float          | RO  | 0       | 41289          |
| TDD_I_L1                     | TDD Line Current L1                                                                        | float          | RO  | 0       | 41291          |
| TDD_I_L2                     | TDD Line Current L2                                                                        | float          | RO  | 0       | 41293          |
| TDD_I_L3                     | TDD Line Current L3                                                                        | float          | RO  | 0       | 41295          |
| V_L1N_H_AMPLITUDE_0          | Star Voltage L1-N Harmonic amplitude #0                                                    | float          | RO  | 0       | 41297          |
| V_L1N_H_AMPLITUDE_1          | Star Voltage L1-N Harmonic amplitude #1                                                    | float          | RO  | 0       | 41299          |
| V_L1N_H_AMPLITUDE_2          | Star Voltage L1-N Harmonic amplitude #2                                                    | float          | RO  | 0       | 41301          |
| V_L1N_H_AMPLITUDE_3          | Star Voltage L1-N Harmonic amplitude #3                                                    | float          | RO  | 0       | 41303          |
| V_L1N_H_AMPLITUDE_4          | Star Voltage L1-N Harmonic amplitude #4                                                    | float          | RO  | 0       | 41305          |
| V_L1N_H_AMPLITUDE_5          | Star Voltage L1-N Harmonic amplitude #5                                                    | float          | RO  | 0       | 41307          |
| V_L1N_H_AMPLITUDE_6          | Star Voltage L1-N Harmonic amplitude #6                                                    | float          | RO  | 0       | 41309          |
| V_L1N_H_AMPLITUDE_7          | Star Voltage L1-N Harmonic amplitude #7                                                    | float          | RO  | 0       | 41311          |
| V_L1N_H_AMPLITUDE_8          | Star Voltage L1-N Harmonic amplitude #8                                                    | float          | RO  | 0       | 41313          |
| V_L1N_H_AMPLITUDE_9          | Star Voltage L1-N Harmonic amplitude #9                                                    | float          | RO  | 0       | 41315          |
| V_L1N_H_AMPLITUDE_10         | Star Voltage L1-N Harmonic amplitude #10                                                   | float          | RO  | 0       | 41317          |
| V_L1N_H_AMPLITUDE_11         | Star Voltage L1-N Harmonic amplitude #11                                                   | float          | RO  | 0       | 41319          |
| V_L1N_H_AMPLITUDE_12         | Star Voltage L1-N Harmonic amplitude #12                                                   | float          | RO  | 0       | 41321          |
| V_L1N_H_AMPLITUDE_13         | Star Voltage L1-N Harmonic amplitude #13                                                   | float          | RO  | 0       | 41323          |
| V_L1N_H_AMPLITUDE_14         | Star Voltage L1-N Harmonic amplitude #14                                                   | float          | RO  | 0       | 41325          |
| V_L1N_H_AMPLITUDE_15         | Star Voltage L1-N Harmonic amplitude #15                                                   | float          | RO  | 0       | 41327          |
| V_L1N_H_AMPLITUDE_16         | Star Voltage L1-N Harmonic amplitude #16                                                   | float          | RO  | 0       | 41329          |
| V_L1N_H_AMPLITUDE_17         | Star Voltage L1-N Harmonic amplitude #17                                                   | float          | RO  | 0       | 41331          |
| V_L1N_H_AMPLITUDE_18         | Star Voltage L1-N Harmonic amplitude #18                                                   | float          | RO  | 0       | 41333          |
| V_L1N_H_AMPLITUDE_19         | Star Voltage L1-N Harmonic amplitude #19                                                   | float          | RO  | 0       | 41335          |
| V_L1N_H_AMPLITUDE_20         | Star Voltage L1-N Harmonic amplitude #20                                                   | float          | RO  | 0       | 41337          |
| V_L1N_H_AMPLITUDE_21         | Star Voltage L1-N Harmonic amplitude #21                                                   | float          | RO  | 0       | 41339          |
| V_L1N_H_AMPLITUDE_22         | Star Voltage L1-N Harmonic amplitude #22                                                   | float          | RO  | 0       | 41341          |
| V_L1N_H_AMPLITUDE_23         | Star Voltage L1-N Harmonic amplitude #23                                                   | float          | RO  | 0       | 41343          |
| V_L1N_H_AMPLITUDE_24         | Star Voltage L1-N Harmonic amplitude #24                                                   | float          | RO  | 0       | 41345          |
| V_L1N_H_AMPLITUDE_25         | Star Voltage L1-N Harmonic amplitude #25                                                   | float          | RO  | 0       | 41347          |
| V_L1N_H_AMPLITUDE_26         | Star Voltage L1-N Harmonic amplitude #26                                                   | float          | RO  | 0       | 41349          |
| V_L1N_H_AMPLITUDE_27         | Star Voltage L1-N Harmonic amplitude #27                                                   | float          | RO  | 0       | 41351          |
| V_L1N_H_AMPLITUDE_28         | Star Voltage L1-N Harmonic amplitude #28                                                   | float          | RO  | 0       | 41353          |
| V_L1N_H_AMPLITUDE_29         | Star Voltage L1-N Harmonic amplitude #29                                                   | float          | RO  | 0       | 41355          |
| V_L1N_H_AMPLITUDE_30         | Star Voltage L1-N Harmonic amplitude #30                                                   | float          | RO  | 0       | 41357          |
| V_L1N_H_AMPLITUDE_31         | Star Voltage L1-N Harmonic amplitude #31                                                   | float          | RO  | 0       | 41359          |
| V_L1N_H_AMPLITUDE_32         | Star Voltage L1-N Harmonic amplitude #32                                                   | float          | RO  | 0       | 41361          |
| V_L1N_H_AMPLITUDE_33         | Star Voltage L1-N Harmonic amplitude #33                                                   | float          | RO  | 0       | 41363          |
| V_L1N_H_AMPLITUDE_34         | Star Voltage L1-N Harmonic amplitude #34                                                   | float          | RO  | 0       | 41365          |
| V_L1N_H_AMPLITUDE_35         | Star Voltage L1-N Harmonic amplitude #35                                                   | float          | RO  | 0       | 41367          |
| V_L1N_H_AMPLITUDE_36         | Star Voltage L1-N Harmonic amplitude #36                                                   | float          | RO  | 0       | 41369          |
| V_L1N_H_AMPLITUDE_37         | Star Voltage L1-N Harmonic amplitude #37                                                   | float          | RO  | 0       | 41371          |
| V_L1N_H_AMPLITUDE_38         | Star Voltage L1-N Harmonic amplitude #38                                                   | float          | RO  | 0       | 41373          |
| V_L1N_H_AMPLITUDE_39         | Star Voltage L1-N Harmonic amplitude #39                                                   | float          | RO  | 0       | 41375          |
| V_L1N_H_AMPLITUDE_40         | Star Voltage L1-N Harmonic amplitude #40                                                   | float          | RO  | 0       | 41377          |
| V_L1N_H_AMPLITUDE_41         | Star Voltage L1-N Harmonic amplitude #41                                                   | float          | RO  | 0       | 41379          |
| V_L1N_H_AMPLITUDE_42         | Star Voltage L1-N Harmonic amplitude #42                                                   | float          | RO  | 0       | 41381          |
| V_L1N_H_AMPLITUDE_43         | Star Voltage L1-N Harmonic amplitude #43                                                   | float          | RO  | 0       | 41383          |
| V_L1N_H_AMPLITUDE_44         | Star Voltage L1-N Harmonic amplitude #44                                                   | float          | RO  | 0       | 41385          |
| V_L1N_H_AMPLITUDE_45         | Star Voltage L1-N Harmonic amplitude #45                                                   | float          | RO  | 0       | 41387          |
| V_L1N_H_AMPLITUDE_46         | Star Voltage L1-N Harmonic amplitude #46                                                   | float          | RO  | 0       | 41389          |
| V_L1N_H_AMPLITUDE_47         | Star Voltage L1-N Harmonic amplitude #47                                                   | float          | RO  | 0       | 41391          |
| V_L1N_H_AMPLITUDE_48         | Star Voltage L1-N Harmonic amplitude #48                                                   | float          | RO  | 0       | 41393          |
| V_L1N_H_AMPLITUDE_49         | Star Voltage L1-N Harmonic amplitude #49                                                   | float          | RO  | 0       | 41395          |
| V_L1N_H_AMPLITUDE_50         | Star Voltage L1-N Harmonic amplitude #50                                                   | float          | RO  | 0       | 41397          |
| V_L1N_H_AMPLITUDE_51         | Star Voltage L1-N Harmonic amplitude #51                                                   | float          | RO  | 0       | 41399          |
| V_L1N_H_AMPLITUDE_52         | Star Voltage L1-N Harmonic amplitude #52                                                   | float          | RO  | 0       | 41401          |
| V_L1N_H_AMPLITUDE_53         | Star Voltage L1-N Harmonic amplitude #53                                                   | float          | RO  | 0       | 41403          |
| V_L1N_H_AMPLITUDE_54         | Star Voltage L1-N Harmonic amplitude #54                                                   | float          | RO  | 0       | 41405          |
| V_L1N_H_AMPLITUDE_55         | Star Voltage L1-N Harmonic amplitude #55                                                   | float          | RO  | 0       | 41407          |
| V_L1N_H_AMPLITUDE_56         | Star Voltage L1-N Harmonic amplitude #56                                                   | float          | RO  | 0       | 41409          |
| V_L1N_H_AMPLITUDE_57         | Star Voltage L1-N Harmonic amplitude #57                                                   | float          | RO  | 0       | 41411          |
| V_L1N_H_AMPLITUDE_58         | Star Voltage L1-N Harmonic amplitude #58                                                   | float          | RO  | 0       | 41413          |
| V_L1N_H_AMPLITUDE_59         | Star Voltage L1-N Harmonic amplitude #59                                                   | float          | RO  | 0       | 41415          |
| V_L1N_H_AMPLITUDE_60         | Star Voltage L1-N Harmonic amplitude #60                                                   | float          | RO  | 0       | 41417          |
| V_L1N_H_AMPLITUDE_61         | Star Voltage L1-N Harmonic amplitude #61                                                   | float          | RO  | 0       | 41419          |
| V_L1N_H_AMPLITUDE_62         | Star Voltage L1-N Harmonic amplitude #62                                                   | float          | RO  | 0       | 41421          |
| V_L1N_H_AMPLITUDE_63         | Star Voltage L1-N Harmonic amplitude #63                                                   | float          | RO  | 0       | 41423          |
| V_L1N_H_PHASE_0              | Star Voltage L1-N Harmonic phase #0                                                        | float          | RO  | 0       | 41425          |
| V_L1N_H_PHASE_1              | Star Voltage L1-N Harmonic phase #1                                                        | float          | RO  | 0       | 41427          |
| V_L1N_H_PHASE_2              | Star Voltage L1-N Harmonic phase #2                                                        | float          | RO  | 0       | 41429          |
| V_L1N_H_PHASE_3              | Star Voltage L1-N Harmonic phase #3                                                        | float          | RO  | 0       | 41431          |
| V_L1N_H_PHASE_4              | Star Voltage L1-N Harmonic phase #4                                                        | float          | RO  | 0       | 41433          |
| V_L1N_H_PHASE_5              | Star Voltage L1-N Harmonic phase #5                                                        | float          | RO  | 0       | 41435          |
| V_L1N_H_PHASE_6              | Star Voltage L1-N Harmonic phase #6                                                        | float          | RO  | 0       | 41437          |
| V_L1N_H_PHASE_7              | Star Voltage L1-N Harmonic phase #7                                                        | float          | RO  | 0       | 41439          |
| V_L1N_H_PHASE_8              | Star Voltage L1-N Harmonic phase #8                                                        | float          | RO  | 0       | 41441          |
| V_L1N_H_PHASE_9              | Star Voltage L1-N Harmonic phase #9                                                        | float          | RO  | 0       | 41443          |
| V_L1N_H_PHASE_10             | Star Voltage L1-N Harmonic phase #10                                                       | float          | RO  | 0       | 41445          |
| V_L1N_H_PHASE_11             | Star Voltage L1-N Harmonic phase #11                                                       | float          | RO  | 0       | 41447          |
| V_L1N_H_PHASE_12             | Star Voltage L1-N Harmonic phase #12                                                       | float          | RO  | 0       | 41449          |
| V_L1N_H_PHASE_13             | Star Voltage L1-N Harmonic phase #13                                                       | float          | RO  | 0       | 41451          |
| V_L1N_H_PHASE_14             | Star Voltage L1-N Harmonic phase #14                                                       | float          | RO  | 0       | 41453          |
| V_L1N_H_PHASE_15             | Star Voltage L1-N Harmonic phase #15                                                       | float          | RO  | 0       | 41455          |

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| Register Name        |  | Description                              | Register Type | R/W | Default | Modbus Address |
|----------------------|--|------------------------------------------|---------------|-----|---------|----------------|
| V_L2N_H_PHASE_9      |  | Star Voltage L2-N Harmonic phase #9      | float         | RO  | 0       | 41699          |
| V_L2N_H_PHASE_10     |  | Star Voltage L2-N Harmonic phase #10     | float         | RO  | 0       | 41701          |
| V_L2N_H_PHASE_11     |  | Star Voltage L2-N Harmonic phase #11     | float         | RO  | 0       | 41703          |
| V_L2N_H_PHASE_12     |  | Star Voltage L2-N Harmonic phase #12     | float         | RO  | 0       | 41705          |
| V_L2N_H_PHASE_13     |  | Star Voltage L2-N Harmonic phase #13     | float         | RO  | 0       | 41707          |
| V_L2N_H_PHASE_14     |  | Star Voltage L2-N Harmonic phase #14     | float         | RO  | 0       | 41709          |
| V_L2N_H_PHASE_15     |  | Star Voltage L2-N Harmonic phase #15     | float         | RO  | 0       | 41711          |
| V_L2N_H_PHASE_16     |  | Star Voltage L2-N Harmonic phase #16     | float         | RO  | 0       | 41713          |
| V_L2N_H_PHASE_17     |  | Star Voltage L2-N Harmonic phase #17     | float         | RO  | 0       | 41715          |
| V_L2N_H_PHASE_18     |  | Star Voltage L2-N Harmonic phase #18     | float         | RO  | 0       | 41717          |
| V_L2N_H_PHASE_19     |  | Star Voltage L2-N Harmonic phase #19     | float         | RO  | 0       | 41719          |
| V_L2N_H_PHASE_20     |  | Star Voltage L2-N Harmonic phase #20     | float         | RO  | 0       | 41721          |
| V_L2N_H_PHASE_21     |  | Star Voltage L2-N Harmonic phase #21     | float         | RO  | 0       | 41723          |
| V_L2N_H_PHASE_22     |  | Star Voltage L2-N Harmonic phase #22     | float         | RO  | 0       | 41725          |
| V_L2N_H_PHASE_23     |  | Star Voltage L2-N Harmonic phase #23     | float         | RO  | 0       | 41727          |
| V_L2N_H_PHASE_24     |  | Star Voltage L2-N Harmonic phase #24     | float         | RO  | 0       | 41729          |
| V_L2N_H_PHASE_25     |  | Star Voltage L2-N Harmonic phase #25     | float         | RO  | 0       | 41731          |
| V_L2N_H_PHASE_26     |  | Star Voltage L2-N Harmonic phase #26     | float         | RO  | 0       | 41733          |
| V_L2N_H_PHASE_27     |  | Star Voltage L2-N Harmonic phase #27     | float         | RO  | 0       | 41735          |
| V_L2N_H_PHASE_28     |  | Star Voltage L2-N Harmonic phase #28     | float         | RO  | 0       | 41737          |
| V_L2N_H_PHASE_29     |  | Star Voltage L2-N Harmonic phase #29     | float         | RO  | 0       | 41739          |
| V_L2N_H_PHASE_30     |  | Star Voltage L2-N Harmonic phase #30     | float         | RO  | 0       | 41741          |
| V_L2N_H_PHASE_31     |  | Star Voltage L2-N Harmonic phase #31     | float         | RO  | 0       | 41743          |
| V_L2N_H_PHASE_32     |  | Star Voltage L2-N Harmonic phase #32     | float         | RO  | 0       | 41745          |
| V_L2N_H_PHASE_33     |  | Star Voltage L2-N Harmonic phase #33     | float         | RO  | 0       | 41747          |
| V_L2N_H_PHASE_34     |  | Star Voltage L2-N Harmonic phase #34     | float         | RO  | 0       | 41749          |
| V_L2N_H_PHASE_35     |  | Star Voltage L2-N Harmonic phase #35     | float         | RO  | 0       | 41751          |
| V_L2N_H_PHASE_36     |  | Star Voltage L2-N Harmonic phase #36     | float         | RO  | 0       | 41753          |
| V_L2N_H_PHASE_37     |  | Star Voltage L2-N Harmonic phase #37     | float         | RO  | 0       | 41755          |
| V_L2N_H_PHASE_38     |  | Star Voltage L2-N Harmonic phase #38     | float         | RO  | 0       | 41757          |
| V_L2N_H_PHASE_39     |  | Star Voltage L2-N Harmonic phase #39     | float         | RO  | 0       | 41759          |
| V_L2N_H_PHASE_40     |  | Star Voltage L2-N Harmonic phase #40     | float         | RO  | 0       | 41761          |
| V_L2N_H_PHASE_41     |  | Star Voltage L2-N Harmonic phase #41     | float         | RO  | 0       | 41763          |
| V_L2N_H_PHASE_42     |  | Star Voltage L2-N Harmonic phase #42     | float         | RO  | 0       | 41765          |
| V_L2N_H_PHASE_43     |  | Star Voltage L2-N Harmonic phase #43     | float         | RO  | 0       | 41767          |
| V_L2N_H_PHASE_44     |  | Star Voltage L2-N Harmonic phase #44     | float         | RO  | 0       | 41769          |
| V_L2N_H_PHASE_45     |  | Star Voltage L2-N Harmonic phase #45     | float         | RO  | 0       | 41771          |
| V_L2N_H_PHASE_46     |  | Star Voltage L2-N Harmonic phase #46     | float         | RO  | 0       | 41773          |
| V_L2N_H_PHASE_47     |  | Star Voltage L2-N Harmonic phase #47     | float         | RO  | 0       | 41775          |
| V_L2N_H_PHASE_48     |  | Star Voltage L2-N Harmonic phase #48     | float         | RO  | 0       | 41777          |
| V_L2N_H_PHASE_49     |  | Star Voltage L2-N Harmonic phase #49     | float         | RO  | 0       | 41779          |
| V_L2N_H_PHASE_50     |  | Star Voltage L2-N Harmonic phase #50     | float         | RO  | 0       | 41781          |
| V_L2N_H_PHASE_51     |  | Star Voltage L2-N Harmonic phase #51     | float         | RO  | 0       | 41783          |
| V_L2N_H_PHASE_52     |  | Star Voltage L2-N Harmonic phase #52     | float         | RO  | 0       | 41785          |
| V_L2N_H_PHASE_53     |  | Star Voltage L2-N Harmonic phase #53     | float         | RO  | 0       | 41787          |
| V_L2N_H_PHASE_54     |  | Star Voltage L2-N Harmonic phase #54     | float         | RO  | 0       | 41789          |
| V_L2N_H_PHASE_55     |  | Star Voltage L2-N Harmonic phase #55     | float         | RO  | 0       | 41791          |
| V_L2N_H_PHASE_56     |  | Star Voltage L2-N Harmonic phase #56     | float         | RO  | 0       | 41793          |
| V_L2N_H_PHASE_57     |  | Star Voltage L2-N Harmonic phase #57     | float         | RO  | 0       | 41795          |
| V_L2N_H_PHASE_58     |  | Star Voltage L2-N Harmonic phase #58     | float         | RO  | 0       | 41797          |
| V_L2N_H_PHASE_59     |  | Star Voltage L2-N Harmonic phase #59     | float         | RO  | 0       | 41799          |
| V_L2N_H_PHASE_60     |  | Star Voltage L2-N Harmonic phase #60     | float         | RO  | 0       | 41801          |
| V_L2N_H_PHASE_61     |  | Star Voltage L2-N Harmonic phase #61     | float         | RO  | 0       | 41803          |
| V_L2N_H_PHASE_62     |  | Star Voltage L2-N Harmonic phase #62     | float         | RO  | 0       | 41805          |
| V_L2N_H_PHASE_63     |  | Star Voltage L2-N Harmonic phase #63     | float         | RO  | 0       | 41807          |
| V_L3N_H_AMPLITUDE_0  |  | Star Voltage L3-N Harmonic amplitude #0  | float         | RO  | 0       | 41809          |
| V_L3N_H_AMPLITUDE_1  |  | Star Voltage L3-N Harmonic amplitude #1  | float         | RO  | 0       | 41811          |
| V_L3N_H_AMPLITUDE_2  |  | Star Voltage L3-N Harmonic amplitude #2  | float         | RO  | 0       | 41813          |
| V_L3N_H_AMPLITUDE_3  |  | Star Voltage L3-N Harmonic amplitude #3  | float         | RO  | 0       | 41815          |
| V_L3N_H_AMPLITUDE_4  |  | Star Voltage L3-N Harmonic amplitude #4  | float         | RO  | 0       | 41817          |
| V_L3N_H_AMPLITUDE_5  |  | Star Voltage L3-N Harmonic amplitude #5  | float         | RO  | 0       | 41819          |
| V_L3N_H_AMPLITUDE_6  |  | Star Voltage L3-N Harmonic amplitude #6  | float         | RO  | 0       | 41821          |
| V_L3N_H_AMPLITUDE_7  |  | Star Voltage L3-N Harmonic amplitude #7  | float         | RO  | 0       | 41823          |
| V_L3N_H_AMPLITUDE_8  |  | Star Voltage L3-N Harmonic amplitude #8  | float         | RO  | 0       | 41825          |
| V_L3N_H_AMPLITUDE_9  |  | Star Voltage L3-N Harmonic amplitude #9  | float         | RO  | 0       | 41827          |
| V_L3N_H_AMPLITUDE_10 |  | Star Voltage L3-N Harmonic amplitude #10 | float         | RO  | 0       | 41829          |
| V_L3N_H_AMPLITUDE_11 |  | Star Voltage L3-N Harmonic amplitude #11 | float         | RO  | 0       | 41831          |
| V_L3N_H_AMPLITUDE_12 |  | Star Voltage L3-N Harmonic amplitude #12 | float         | RO  | 0       | 41833          |
| V_L3N_H_AMPLITUDE_13 |  | Star Voltage L3-N Harmonic amplitude #13 | float         | RO  | 0       | 41835          |
| V_L3N_H_AMPLITUDE_14 |  | Star Voltage L3-N Harmonic amplitude #14 | float         | RO  | 0       | 41837          |
| V_L3N_H_AMPLITUDE_15 |  | Star Voltage L3-N Harmonic amplitude #15 | float         | RO  | 0       | 41839          |
| V_L3N_H_AMPLITUDE_16 |  | Star Voltage L3-N Harmonic amplitude #16 | float         | RO  | 0       | 41841          |
| V_L3N_H_AMPLITUDE_17 |  | Star Voltage L3-N Harmonic amplitude #17 | float         | RO  | 0       | 41843          |
| V_L3N_H_AMPLITUDE_18 |  | Star Voltage L3-N Harmonic amplitude #18 | float         | RO  | 0       | 41845          |
| V_L3N_H_AMPLITUDE_19 |  | Star Voltage L3-N Harmonic amplitude #19 | float         | RO  | 0       | 41847          |
| V_L3N_H_AMPLITUDE_20 |  | Star Voltage L3-N Harmonic amplitude #20 | float         | RO  | 0       | 41849          |
| V_L3N_H_AMPLITUDE_21 |  | Star Voltage L3-N Harmonic amplitude #21 | float         | RO  | 0       | 41851          |
| V_L3N_H_AMPLITUDE_22 |  | Star Voltage L3-N Harmonic amplitude #22 | float         | RO  | 0       | 41853          |
| V_L3N_H_AMPLITUDE_23 |  | Star Voltage L3-N Harmonic amplitude #23 | float         | RO  | 0       | 41855          |
| V_L3N_H_AMPLITUDE_24 |  | Star Voltage L3-N Harmonic amplitude #24 | float         | RO  | 0       | 41857          |
| V_L3N_H_AMPLITUDE_25 |  | Star Voltage L3-N Harmonic amplitude #25 | float         | RO  | 0       | 41859          |
| V_L3N_H_AMPLITUDE_26 |  | Star Voltage L3-N Harmonic amplitude #26 | float         | RO  | 0       | 41861          |
| V_L3N_H_AMPLITUDE_27 |  | Star Voltage L3-N Harmonic amplitude #27 | float         | RO  | 0       | 41863          |
| V_L3N_H_AMPLITUDE_28 |  | Star Voltage L3-N Harmonic amplitude #28 | float         | RO  | 0       | 41865          |
| V_L3N_H_AMPLITUDE_29 |  | Star Voltage L3-N Harmonic amplitude #29 | float         | RO  | 0       | 41867          |
| V_L3N_H_AMPLITUDE_30 |  | Star Voltage L3-N Harmonic amplitude #30 | float         | RO  | 0       | 41869          |
| V_L3N_H_AMPLITUDE_31 |  | Star Voltage L3-N Harmonic amplitude #31 | float         | RO  | 0       | 41871          |
| V_L3N_H_AMPLITUDE_32 |  | Star Voltage L3-N Harmonic amplitude #32 | float         | RO  | 0       | 41873          |
| V_L3N_H_AMPLITUDE_33 |  | Star Voltage L3-N Harmonic amplitude #33 | float         | RO  | 0       | 41875          |
| V_L3N_H_AMPLITUDE_34 |  | Star Voltage L3-N Harmonic amplitude #34 | float         | RO  | 0       | 41877          |
| V_L3N_H_AMPLITUDE_35 |  | Star Voltage L3-N Harmonic amplitude #35 | float         | RO  | 0       | 41879          |
| V_L3N_H_AMPLITUDE_36 |  | Star Voltage L3-N Harmonic amplitude #36 | float         | RO  | 0       | 41881          |
| V_L3N_H_AMPLITUDE_37 |  | Star Voltage L3-N Harmonic amplitude #37 | float         | RO  | 0       | 41883          |
| V_L3N_H_AMPLITUDE_38 |  | Star Voltage L3-N Harmonic amplitude #38 | float         | RO  | 0       | 41885          |
| V_L3N_H_AMPLITUDE_39 |  | Star Voltage L3-N Harmonic amplitude #39 | float         | RO  | 0       | 41887          |
| V_L3N_H_AMPLITUDE_40 |  | Star Voltage L3-N Harmonic amplitude #40 | float         | RO  | 0       | 41889          |
| V_L3N_H_AMPLITUDE_41 |  | Star Voltage L3-N Harmonic amplitude #41 | float         | RO  | 0       | 41891          |
| V_L3N_H_AMPLITUDE_42 |  | Star Voltage L3-N Harmonic amplitude #42 | float         | RO  | 0       | 41893          |
| V_L3N_H_AMPLITUDE_43 |  | Star Voltage L3-N Harmonic amplitude #43 | float         | RO  | 0       | 41895          |
| V_L3N_H_AMPLITUDE_44 |  | Star Voltage L3-N Harmonic amplitude #44 | float         | RO  | 0       | 41897          |
| V_L3N_H_AMPLITUDE_45 |  | Star Voltage L3-N Harmonic amplitude #45 | float         | RO  | 0       | 41899          |
| V_L3N_H_AMPLITUDE_46 |  | Star Voltage L3-N Harmonic amplitude #46 | float         | RO  | 0       | 41901          |
| V_L3N_H_AMPLITUDE_47 |  | Star Voltage L3-N Harmonic amplitude #47 | float         | RO  | 0       | 41903          |
| V_L3N_H_AMPLITUDE_48 |  | Star Voltage L3-N Harmonic amplitude #48 | float         | RO  | 0       | 41905          |
| V_L3N_H_AMPLITUDE_49 |  | Star Voltage L3-N Harmonic amplitude #49 | float         | RO  | 0       | 41907          |
| V_L3N_H_AMPLITUDE_50 |  | Star Voltage L3-N Harmonic amplitude #50 | float         | RO  | 0       | 41909          |
| V_L3N_H_AMPLITUDE_51 |  | Star Voltage L3-N Harmonic amplitude #51 | float         | RO  | 0       | 41911          |
| V_L3N_H_AMPLITUDE_52 |  | Star Voltage L3-N Harmonic amplitude #52 | float         | RO  | 0       | 41913          |
| V_L3N_H_AMPLITUDE_53 |  | Star Voltage L3-N Harmonic amplitude #53 | float         | RO  | 0       | 41915          |
| V_L3N_H_AMPLITUDE_54 |  | Star Voltage L3-N Harmonic amplitude #54 | float         | RO  | 0       | 41917          |
| V_L3N_H_AMPLITUDE_55 |  | Star Voltage L3-N Harmonic amplitude #55 | float         | RO  | 0       | 41919          |
| V_L3N_H_AMPLITUDE_56 |  | Star Voltage L3-N Harmonic amplitude #56 | float         | RO  | 0       | 41921          |
| V_L3N_H_AMPLITUDE_57 |  | Star Voltage L3-N Harmonic amplitude #57 | float         | RO  | 0       | 41923          |
| V_L3N_H_AMPLITUDE_58 |  | Star Voltage L3-N Harmonic amplitude #58 | float         | RO  | 0       | 41925          |
| V_L3N_H_AMPLITUDE_59 |  | Star Voltage L3-N Harmonic amplitude #59 | float         | RO  | 0       | 41927          |
| V_L3N_H_AMPLITUDE_60 |  | Star Voltage L3-N Harmonic amplitude #60 | float         | RO  | 0       | 41929          |
| V_L3N_H_AMPLITUDE_61 |  | Star Voltage L3-N Harmonic amplitude #61 | float         | RO  | 0       | 41931          |
| V_L3N_H_AMPLITUDE_62 |  | Star Voltage L3-N Harmonic amplitude #62 | float         | RO  | 0       | 41933          |
| V_L3N_H_AMPLITUDE_63 |  | Star Voltage L3-N Harmonic amplitude #63 | float         | RO  | 0       | 41935          |
| V_L3N_H_PHASE_0      |  | Star Voltage L3-N Harmonic phase #0      | float         | RO  | 0       | 41937          |
| V_L3N_H_PHASE_1      |  | Star Voltage L3-N Harmonic phase #1      | float         | RO  | 0       | 41939          |

| Register Name        |  | Description                               | Register Type | R/W | Default | Modbus Address |
|----------------------|--|-------------------------------------------|---------------|-----|---------|----------------|
| V_L3N_H_PHASE_2      |  | Star Voltage L3-N Harmonic phase #2       | float         | RO  | 0       | 41941          |
| V_L3N_H_PHASE_3      |  | Star Voltage L3-N Harmonic phase #3       | float         | RO  | 0       | 41943          |
| V_L3N_H_PHASE_4      |  | Star Voltage L3-N Harmonic phase #4       | float         | RO  | 0       | 41945          |
| V_L3N_H_PHASE_5      |  | Star Voltage L3-N Harmonic phase #5       | float         | RO  | 0       | 41947          |
| V_L3N_H_PHASE_6      |  | Star Voltage L3-N Harmonic phase #6       | float         | RO  | 0       | 41949          |
| V_L3N_H_PHASE_7      |  | Star Voltage L3-N Harmonic phase #7       | float         | RO  | 0       | 41951          |
| V_L3N_H_PHASE_8      |  | Star Voltage L3-N Harmonic phase #8       | float         | RO  | 0       | 41953          |
| V_L3N_H_PHASE_9      |  | Star Voltage L3-N Harmonic phase #9       | float         | RO  | 0       | 41955          |
| V_L3N_H_PHASE_10     |  | Star Voltage L3-N Harmonic phase #10      | float         | RO  | 0       | 41957          |
| V_L3N_H_PHASE_11     |  | Star Voltage L3-N Harmonic phase #11      | float         | RO  | 0       | 41959          |
| V_L3N_H_PHASE_12     |  | Star Voltage L3-N Harmonic phase #12      | float         | RO  | 0       | 41961          |
| V_L3N_H_PHASE_13     |  | Star Voltage L3-N Harmonic phase #13      | float         | RO  | 0       | 41963          |
| V_L3N_H_PHASE_14     |  | Star Voltage L3-N Harmonic phase #14      | float         | RO  | 0       | 41965          |
| V_L3N_H_PHASE_15     |  | Star Voltage L3-N Harmonic phase #15      | float         | RO  | 0       | 41967          |
| V_L3N_H_PHASE_16     |  | Star Voltage L3-N Harmonic phase #16      | float         | RO  | 0       | 41969          |
| V_L3N_H_PHASE_17     |  | Star Voltage L3-N Harmonic phase #17      | float         | RO  | 0       | 41971          |
| V_L3N_H_PHASE_18     |  | Star Voltage L3-N Harmonic phase #18      | float         | RO  | 0       | 41973          |
| V_L3N_H_PHASE_19     |  | Star Voltage L3-N Harmonic phase #19      | float         | RO  | 0       | 41975          |
| V_L3N_H_PHASE_20     |  | Star Voltage L3-N Harmonic phase #20      | float         | RO  | 0       | 41977          |
| V_L3N_H_PHASE_21     |  | Star Voltage L3-N Harmonic phase #21      | float         | RO  | 0       | 41979          |
| V_L3N_H_PHASE_22     |  | Star Voltage L3-N Harmonic phase #22      | float         | RO  | 0       | 41981          |
| V_L3N_H_PHASE_23     |  | Star Voltage L3-N Harmonic phase #23      | float         | RO  | 0       | 41983          |
| V_L3N_H_PHASE_24     |  | Star Voltage L3-N Harmonic phase #24      | float         | RO  | 0       | 41985          |
| V_L3N_H_PHASE_25     |  | Star Voltage L3-N Harmonic phase #25      | float         | RO  | 0       | 41987          |
| V_L3N_H_PHASE_26     |  | Star Voltage L3-N Harmonic phase #26      | float         | RO  | 0       | 41989          |
| V_L3N_H_PHASE_27     |  | Star Voltage L3-N Harmonic phase #27      | float         | RO  | 0       | 41991          |
| V_L3N_H_PHASE_28     |  | Star Voltage L3-N Harmonic phase #28      | float         | RO  | 0       | 41993          |
| V_L3N_H_PHASE_29     |  | Star Voltage L3-N Harmonic phase #29      | float         | RO  | 0       | 41995          |
| V_L3N_H_PHASE_30     |  | Star Voltage L3-N Harmonic phase #30      | float         | RO  | 0       | 41997          |
| V_L3N_H_PHASE_31     |  | Star Voltage L3-N Harmonic phase #31      | float         | RO  | 0       | 41999          |
| V_L3N_H_PHASE_32     |  | Star Voltage L3-N Harmonic phase #32      | float         | RO  | 0       | 42001          |
| V_L3N_H_PHASE_33     |  | Star Voltage L3-N Harmonic phase #33      | float         | RO  | 0       | 42003          |
| V_L3N_H_PHASE_34     |  | Star Voltage L3-N Harmonic phase #34      | float         | RO  | 0       | 42005          |
| V_L3N_H_PHASE_35     |  | Star Voltage L3-N Harmonic phase #35      | float         | RO  | 0       | 42007          |
| V_L3N_H_PHASE_36     |  | Star Voltage L3-N Harmonic phase #36      | float         | RO  | 0       | 42009          |
| V_L3N_H_PHASE_37     |  | Star Voltage L3-N Harmonic phase #37      | float         | RO  | 0       | 42011          |
| V_L3N_H_PHASE_38     |  | Star Voltage L3-N Harmonic phase #38      | float         | RO  | 0       | 42013          |
| V_L3N_H_PHASE_39     |  | Star Voltage L3-N Harmonic phase #39      | float         | RO  | 0       | 42015          |
| V_L3N_H_PHASE_40     |  | Star Voltage L3-N Harmonic phase #40      | float         | RO  | 0       | 42017          |
| V_L3N_H_PHASE_41     |  | Star Voltage L3-N Harmonic phase #41      | float         | RO  | 0       | 42019          |
| V_L3N_H_PHASE_42     |  | Star Voltage L3-N Harmonic phase #42      | float         | RO  | 0       | 42021          |
| V_L3N_H_PHASE_43     |  | Star Voltage L3-N Harmonic phase #43      | float         | RO  | 0       | 42023          |
| V_L3N_H_PHASE_44     |  | Star Voltage L3-N Harmonic phase #44      | float         | RO  | 0       | 42025          |
| V_L3N_H_PHASE_45     |  | Star Voltage L3-N Harmonic phase #45      | float         | RO  | 0       | 42027          |
| V_L3N_H_PHASE_46     |  | Star Voltage L3-N Harmonic phase #46      | float         | RO  | 0       | 42029          |
| V_L3N_H_PHASE_47     |  | Star Voltage L3-N Harmonic phase #47      | float         | RO  | 0       | 42031          |
| V_L3N_H_PHASE_48     |  | Star Voltage L3-N Harmonic phase #48      | float         | RO  | 0       | 42033          |
| V_L3N_H_PHASE_49     |  | Star Voltage L3-N Harmonic phase #49      | float         | RO  | 0       | 42035          |
| V_L3N_H_PHASE_50     |  | Star Voltage L3-N Harmonic phase #50      | float         | RO  | 0       | 42037          |
| V_L3N_H_PHASE_51     |  | Star Voltage L3-N Harmonic phase #51      | float         | RO  | 0       | 42039          |
| V_L3N_H_PHASE_52     |  | Star Voltage L3-N Harmonic phase #52      | float         | RO  | 0       | 42041          |
| V_L3N_H_PHASE_53     |  | Star Voltage L3-N Harmonic phase #53      | float         | RO  | 0       | 42043          |
| V_L3N_H_PHASE_54     |  | Star Voltage L3-N Harmonic phase #54      | float         | RO  | 0       | 42045          |
| V_L3N_H_PHASE_55     |  | Star Voltage L3-N Harmonic phase #55      | float         | RO  | 0       | 42047          |
| V_L3N_H_PHASE_56     |  | Star Voltage L3-N Harmonic phase #56      | float         | RO  | 0       | 42049          |
| V_L3N_H_PHASE_57     |  | Star Voltage L3-N Harmonic phase #57      | float         | RO  | 0       | 42051          |
| V_L3N_H_PHASE_58     |  | Star Voltage L3-N Harmonic phase #58      | float         | RO  | 0       | 42053          |
| V_L3N_H_PHASE_59     |  | Star Voltage L3-N Harmonic phase #59      | float         | RO  | 0       | 42055          |
| V_L3N_H_PHASE_60     |  | Star Voltage L3-N Harmonic phase #60      | float         | RO  | 0       | 42057          |
| V_L3N_H_PHASE_61     |  | Star Voltage L3-N Harmonic phase #61      | float         | RO  | 0       | 42059          |
| V_L3N_H_PHASE_62     |  | Star Voltage L3-N Harmonic phase #62      | float         | RO  | 0       | 42061          |
| V_L3N_H_PHASE_63     |  | Star Voltage L3-N Harmonic phase #63      | float         | RO  | 0       | 42063          |
| V_L12_H_AMPLITUDE_0  |  | Line Voltage L1-L2 Harmonic amplitude #0  | float         | RO  | 0       | 42065          |
| V_L12_H_AMPLITUDE_1  |  | Line Voltage L1-L2 Harmonic amplitude #1  | float         | RO  | 0       | 42067          |
| V_L12_H_AMPLITUDE_2  |  | Line Voltage L1-L2 Harmonic amplitude #2  | float         | RO  | 0       | 42069          |
| V_L12_H_AMPLITUDE_3  |  | Line Voltage L1-L2 Harmonic amplitude #3  | float         | RO  | 0       | 42071          |
| V_L12_H_AMPLITUDE_4  |  | Line Voltage L1-L2 Harmonic amplitude #4  | float         | RO  | 0       | 42073          |
| V_L12_H_AMPLITUDE_5  |  | Line Voltage L1-L2 Harmonic amplitude #5  | float         | RO  | 0       | 42075          |
| V_L12_H_AMPLITUDE_6  |  | Line Voltage L1-L2 Harmonic amplitude #6  | float         | RO  | 0       | 42077          |
| V_L12_H_AMPLITUDE_7  |  | Line Voltage L1-L2 Harmonic amplitude #7  | float         | RO  | 0       | 42079          |
| V_L12_H_AMPLITUDE_8  |  | Line Voltage L1-L2 Harmonic amplitude #8  | float         | RO  | 0       | 42081          |
| V_L12_H_AMPLITUDE_9  |  | Line Voltage L1-L2 Harmonic amplitude #9  | float         | RO  | 0       | 42083          |
| V_L12_H_AMPLITUDE_10 |  | Line Voltage L1-L2 Harmonic amplitude #10 | float         | RO  | 0       | 42085          |
| V_L12_H_AMPLITUDE_11 |  | Line Voltage L1-L2 Harmonic amplitude #11 | float         | RO  | 0       | 42087          |
| V_L12_H_AMPLITUDE_12 |  | Line Voltage L1-L2 Harmonic amplitude #12 | float         | RO  | 0       | 42089          |
| V_L12_H_AMPLITUDE_13 |  | Line Voltage L1-L2 Harmonic amplitude #13 | float         | RO  | 0       | 42091          |
| V_L12_H_AMPLITUDE_14 |  | Line Voltage L1-L2 Harmonic amplitude #14 | float         | RO  | 0       | 42093          |
| V_L12_H_AMPLITUDE_15 |  | Line Voltage L1-L2 Harmonic amplitude #15 | float         | RO  | 0       | 42095          |
| V_L12_H_AMPLITUDE_16 |  | Line Voltage L1-L2 Harmonic amplitude #16 | float         | RO  | 0       | 42097          |
| V_L12_H_AMPLITUDE_17 |  | Line Voltage L1-L2 Harmonic amplitude #17 | float         | RO  | 0       | 42099          |
| V_L12_H_AMPLITUDE_18 |  | Line Voltage L1-L2 Harmonic amplitude #18 | float         | RO  | 0       | 42101          |
| V_L12_H_AMPLITUDE_19 |  | Line Voltage L1-L2 Harmonic amplitude #19 | float         | RO  | 0       | 42103          |
| V_L12_H_AMPLITUDE_20 |  | Line Voltage L1-L2 Harmonic amplitude #20 | float         | RO  | 0       | 42105          |
| V_L12_H_AMPLITUDE_21 |  | Line Voltage L1-L2 Harmonic amplitude #21 | float         | RO  | 0       | 42107          |
| V_L12_H_AMPLITUDE_22 |  | Line Voltage L1-L2 Harmonic amplitude #22 | float         | RO  | 0       | 42109          |
| V_L12_H_AMPLITUDE_23 |  | Line Voltage L1-L2 Harmonic amplitude #23 | float         | RO  | 0       | 42111          |
| V_L12_H_AMPLITUDE_24 |  | Line Voltage L1-L2 Harmonic amplitude #24 | float         | RO  | 0       | 42113          |
| V_L12_H_AMPLITUDE_25 |  | Line Voltage L1-L2 Harmonic amplitude #25 | float         | RO  | 0       | 42115          |
| V_L12_H_AMPLITUDE_26 |  | Line Voltage L1-L2 Harmonic amplitude #26 | float         | RO  | 0       | 42117          |
| V_L12_H_AMPLITUDE_27 |  | Line Voltage L1-L2 Harmonic amplitude #27 | float         | RO  | 0       | 42119          |
| V_L12_H_AMPLITUDE_28 |  | Line Voltage L1-L2 Harmonic amplitude #28 | float         | RO  | 0       | 42121          |
| V_L12_H_AMPLITUDE_29 |  | Line Voltage L1-L2 Harmonic amplitude #29 | float         | RO  | 0       | 42123          |
| V_L12_H_AMPLITUDE_30 |  | Line Voltage L1-L2 Harmonic amplitude #30 | float         | RO  | 0       | 42125          |
| V_L12_H_AMPLITUDE_31 |  | Line Voltage L1-L2 Harmonic amplitude #31 | float         | RO  | 0       | 42127          |
| V_L12_H_AMPLITUDE_32 |  | Line Voltage L1-L2 Harmonic amplitude #32 | float         | RO  | 0       | 42129          |
| V_L12_H_AMPLITUDE_33 |  | Line Voltage L1-L2 Harmonic amplitude #33 | float         | RO  | 0       | 42131          |
| V_L12_H_AMPLITUDE_34 |  | Line Voltage L1-L2 Harmonic amplitude #34 | float         | RO  | 0       | 42133          |
| V_L12_H_AMPLITUDE_35 |  | Line Voltage L1-L2 Harmonic amplitude #35 | float         | RO  | 0       | 42135          |
| V_L12_H_AMPLITUDE_36 |  | Line Voltage L1-L2 Harmonic amplitude #36 | float         | RO  | 0       | 42137          |
| V_L12_H_AMPLITUDE_37 |  | Line Voltage L1-L2 Harmonic amplitude #37 | float         | RO  | 0       | 42139          |
| V_L12_H_AMPLITUDE_38 |  | Line Voltage L1-L2 Harmonic amplitude #38 | float         | RO  | 0       | 42141          |
| V_L12_H_AMPLITUDE_39 |  | Line Voltage L1-L2 Harmonic amplitude #39 | float         | RO  | 0       | 42143          |
| V_L12_H_AMPLITUDE_40 |  | Line Voltage L1-L2 Harmonic amplitude #40 | float         | RO  | 0       | 42145          |
| V_L12_H_AMPLITUDE_41 |  | Line Voltage L1-L2 Harmonic amplitude #41 | float         | RO  | 0       | 42147          |
| V_L12_H_AMPLITUDE_42 |  | Line Voltage L1-L2 Harmonic amplitude #42 | float         | RO  | 0       | 42149          |
| V_L12_H_AMPLITUDE_43 |  | Line Voltage L1-L2 Harmonic amplitude #43 | float         | RO  | 0       | 42151          |
| V_L12_H_AMPLITUDE_44 |  | Line Voltage L1-L2 Harmonic amplitude #44 | float         | RO  | 0       | 42153          |
| V_L12_H_AMPLITUDE_45 |  | Line Voltage L1-L2 Harmonic amplitude #45 | float         | RO  | 0       | 42155          |
| V_L12_H_AMPLITUDE_46 |  | Line Voltage L1-L2 Harmonic amplitude #46 | float         | RO  | 0       | 42157          |
| V_L12_H_AMPLITUDE_47 |  | Line Voltage L1-L2 Harmonic amplitude #47 | float         | RO  | 0       | 42159          |
| V_L12_H_AMPLITUDE_48 |  | Line Voltage L1-L2 Harmonic amplitude #48 | float         | RO  | 0       | 42161          |
| V_L12_H_AMPLITUDE_49 |  | Line Voltage L1-L2 Harmonic amplitude #49 | float         | RO  | 0       | 42163          |
| V_L12_H_AMPLITUDE_50 |  | Line Voltage L1-L2 Harmonic amplitude #50 | float         | RO  | 0       | 42165          |
| V_L12_H_AMPLITUDE_51 |  | Line Voltage L1-L2 Harmonic amplitude #51 | float         | RO  | 0       | 42167          |
| V_L12_H_AMPLITUDE_52 |  | Line Voltage L1-L2 Harmonic amplitude #52 | float         | RO  | 0       | 42169          |
| V_L12_H_AMPLITUDE_53 |  | Line Voltage L1-L2 Harmonic amplitude #53 | float         | RO  | 0       | 42171          |
| V_L12_H_AMPLITUDE_54 |  | Line Voltage L1-L2 Harmonic amplitude #54 | float         | RO  | 0       | 42173          |
| V_L12_H_AMPLITUDE_55 |  | Line Voltage L1-L2 Harmonic amplitude #55 | float         | RO  | 0       | 42175          |
| V_L12_H_AMPLITUDE_56 |  | Line Voltage L1-L2 Harmonic amplitude #56 | float         | RO  | 0       | 42177          |
| V_L12_H_AMPLITUDE_57 |  | Line Voltage L1-L2 Harmonic amplitude #57 | float         | RO  | 0       | 42179          |
| V_L12_H_AMPLITUDE_58 |  | Line Voltage L1-L2 Harmonic amplitude #58 | float         | RO  | 0       | 42181          |



R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

EMT130 MR Rev0

| Register Name        | Description                               | Register Type | R/W | Default | Modbus Address |
|----------------------|-------------------------------------------|---------------|-----|---------|----------------|
| V_L12_H_AMPLITUDE_59 | Line Voltage L1-L2 Harmonic amplitude #59 | float         | RO  | 0       | 42183          |
| V_L12_H_AMPLITUDE_60 | Line Voltage L1-L2 Harmonic amplitude #60 | float         | RO  | 0       | 42185          |
| V_L12_H_AMPLITUDE_61 | Line Voltage L1-L2 Harmonic amplitude #61 | float         | RO  | 0       | 42187          |
| V_L12_H_AMPLITUDE_62 | Line Voltage L1-L2 Harmonic amplitude #62 | float         | RO  | 0       | 42189          |
| V_L12_H_AMPLITUDE_63 | Line Voltage L1-L2 Harmonic amplitude #63 | float         | RO  | 0       | 42191          |
| V_L12_H_PHASE_0      | Line Voltage L1-L2 Harmonic phase #0      | float         | RO  | 0       | 42193          |
| V_L12_H_PHASE_1      | Line Voltage L1-L2 Harmonic phase #1      | float         | RO  | 0       | 42195          |
| V_L12_H_PHASE_2      | Line Voltage L1-L2 Harmonic phase #2      | float         | RO  | 0       | 42197          |
| V_L12_H_PHASE_3      | Line Voltage L1-L2 Harmonic phase #3      | float         | RO  | 0       | 42199          |
| V_L12_H_PHASE_4      | Line Voltage L1-L2 Harmonic phase #4      | float         | RO  | 0       | 42201          |
| V_L12_H_PHASE_5      | Line Voltage L1-L2 Harmonic phase #5      | float         | RO  | 0       | 42203          |
| V_L12_H_PHASE_6      | Line Voltage L1-L2 Harmonic phase #6      | float         | RO  | 0       | 42205          |
| V_L12_H_PHASE_7      | Line Voltage L1-L2 Harmonic phase #7      | float         | RO  | 0       | 42207          |
| V_L12_H_PHASE_8      | Line Voltage L1-L2 Harmonic phase #8      | float         | RO  | 0       | 42209          |
| V_L12_H_PHASE_9      | Line Voltage L1-L2 Harmonic phase #9      | float         | RO  | 0       | 42211          |
| V_L12_H_PHASE_10     | Line Voltage L1-L2 Harmonic phase #10     | float         | RO  | 0       | 42213          |
| V_L12_H_PHASE_11     | Line Voltage L1-L2 Harmonic phase #11     | float         | RO  | 0       | 42215          |
| V_L12_H_PHASE_12     | Line Voltage L1-L2 Harmonic phase #12     | float         | RO  | 0       | 42217          |
| V_L12_H_PHASE_13     | Line Voltage L1-L2 Harmonic phase #13     | float         | RO  | 0       | 42219          |
| V_L12_H_PHASE_14     | Line Voltage L1-L2 Harmonic phase #14     | float         | RO  | 0       | 42221          |
| V_L12_H_PHASE_15     | Line Voltage L1-L2 Harmonic phase #15     | float         | RO  | 0       | 42223          |
| V_L12_H_PHASE_16     | Line Voltage L1-L2 Harmonic phase #16     | float         | RO  | 0       | 42225          |
| V_L12_H_PHASE_17     | Line Voltage L1-L2 Harmonic phase #17     | float         | RO  | 0       | 42227          |
| V_L12_H_PHASE_18     | Line Voltage L1-L2 Harmonic phase #18     | float         | RO  | 0       | 42229          |
| V_L12_H_PHASE_19     | Line Voltage L1-L2 Harmonic phase #19     | float         | RO  | 0       | 42231          |
| V_L12_H_PHASE_20     | Line Voltage L1-L2 Harmonic phase #20     | float         | RO  | 0       | 42233          |
| V_L12_H_PHASE_21     | Line Voltage L1-L2 Harmonic phase #21     | float         | RO  | 0       | 42235          |
| V_L12_H_PHASE_22     | Line Voltage L1-L2 Harmonic phase #22     | float         | RO  | 0       | 42237          |
| V_L12_H_PHASE_23     | Line Voltage L1-L2 Harmonic phase #23     | float         | RO  | 0       | 42239          |
| V_L12_H_PHASE_24     | Line Voltage L1-L2 Harmonic phase #24     | float         | RO  | 0       | 42241          |
| V_L12_H_PHASE_25     | Line Voltage L1-L2 Harmonic phase #25     | float         | RO  | 0       | 42243          |
| V_L12_H_PHASE_26     | Line Voltage L1-L2 Harmonic phase #26     | float         | RO  | 0       | 42245          |
| V_L12_H_PHASE_27     | Line Voltage L1-L2 Harmonic phase #27     | float         | RO  | 0       | 42247          |
| V_L12_H_PHASE_28     | Line Voltage L1-L2 Harmonic phase #28     | float         | RO  | 0       | 42249          |
| V_L12_H_PHASE_29     | Line Voltage L1-L2 Harmonic phase #29     | float         | RO  | 0       | 42251          |
| V_L12_H_PHASE_30     | Line Voltage L1-L2 Harmonic phase #30     | float         | RO  | 0       | 42253          |
| V_L12_H_PHASE_31     | Line Voltage L1-L2 Harmonic phase #31     | float         | RO  | 0       | 42255          |
| V_L12_H_PHASE_32     | Line Voltage L1-L2 Harmonic phase #32     | float         | RO  | 0       | 42257          |
| V_L12_H_PHASE_33     | Line Voltage L1-L2 Harmonic phase #33     | float         | RO  | 0       | 42259          |
| V_L12_H_PHASE_34     | Line Voltage L1-L2 Harmonic phase #34     | float         | RO  | 0       | 42261          |
| V_L12_H_PHASE_35     | Line Voltage L1-L2 Harmonic phase #35     | float         | RO  | 0       | 42263          |
| V_L12_H_PHASE_36     | Line Voltage L1-L2 Harmonic phase #36     | float         | RO  | 0       | 42265          |
| V_L12_H_PHASE_37     | Line Voltage L1-L2 Harmonic phase #37     | float         | RO  | 0       | 42267          |
| V_L12_H_PHASE_38     | Line Voltage L1-L2 Harmonic phase #38     | float         | RO  | 0       | 42269          |
| V_L12_H_PHASE_39     | Line Voltage L1-L2 Harmonic phase #39     | float         | RO  | 0       | 42271          |
| V_L12_H_PHASE_40     | Line Voltage L1-L2 Harmonic phase #40     | float         | RO  | 0       | 42273          |
| V_L12_H_PHASE_41     | Line Voltage L1-L2 Harmonic phase #41     | float         | RO  | 0       | 42275          |
| V_L12_H_PHASE_42     | Line Voltage L1-L2 Harmonic phase #42     | float         | RO  | 0       | 42277          |
| V_L12_H_PHASE_43     | Line Voltage L1-L2 Harmonic phase #43     | float         | RO  | 0       | 42279          |
| V_L12_H_PHASE_44     | Line Voltage L1-L2 Harmonic phase #44     | float         | RO  | 0       | 42281          |
| V_L12_H_PHASE_45     | Line Voltage L1-L2 Harmonic phase #45     | float         | RO  | 0       | 42283          |
| V_L12_H_PHASE_46     | Line Voltage L1-L2 Harmonic phase #46     | float         | RO  | 0       | 42285          |
| V_L12_H_PHASE_47     | Line Voltage L1-L2 Harmonic phase #47     | float         | RO  | 0       | 42287          |
| V_L12_H_PHASE_48     | Line Voltage L1-L2 Harmonic phase #48     | float         | RO  | 0       | 42289          |
| V_L12_H_PHASE_49     | Line Voltage L1-L2 Harmonic phase #49     | float         | RO  | 0       | 42291          |
| V_L12_H_PHASE_50     | Line Voltage L1-L2 Harmonic phase #50     | float         | RO  | 0       | 42293          |
| V_L12_H_PHASE_51     | Line Voltage L1-L2 Harmonic phase #51     | float         | RO  | 0       | 42295          |
| V_L12_H_PHASE_52     | Line Voltage L1-L2 Harmonic phase #52     | float         | RO  | 0       | 42297          |
| V_L12_H_PHASE_53     | Line Voltage L1-L2 Harmonic phase #53     | float         | RO  | 0       | 42299          |
| V_L12_H_PHASE_54     | Line Voltage L1-L2 Harmonic phase #54     | float         | RO  | 0       | 42301          |
| V_L12_H_PHASE_55     | Line Voltage L1-L2 Harmonic phase #55     | float         | RO  | 0       | 42303          |
| V_L12_H_PHASE_56     | Line Voltage L1-L2 Harmonic phase #56     | float         | RO  | 0       | 42305          |
| V_L12_H_PHASE_57     | Line Voltage L1-L2 Harmonic phase #57     | float         | RO  | 0       | 42307          |
| V_L12_H_PHASE_58     | Line Voltage L1-L2 Harmonic phase #58     | float         | RO  | 0       | 42309          |
| V_L12_H_PHASE_59     | Line Voltage L1-L2 Harmonic phase #59     | float         | RO  | 0       | 42311          |
| V_L12_H_PHASE_60     | Line Voltage L1-L2 Harmonic phase #60     | float         | RO  | 0       | 42313          |
| V_L12_H_PHASE_61     | Line Voltage L1-L2 Harmonic phase #61     | float         | RO  | 0       | 42315          |
| V_L12_H_PHASE_62     | Line Voltage L1-L2 Harmonic phase #62     | float         | RO  | 0       | 42317          |
| V_L12_H_PHASE_63     | Line Voltage L1-L2 Harmonic phase #63     | float         | RO  | 0       | 42319          |
| V_L23_H_AMPLITUDE_0  | Line Voltage L2-L3 Harmonic amplitude #0  | float         | RO  | 0       | 42321          |
| V_L23_H_AMPLITUDE_1  | Line Voltage L2-L3 Harmonic amplitude #1  | float         | RO  | 0       | 42323          |
| V_L23_H_AMPLITUDE_2  | Line Voltage L2-L3 Harmonic amplitude #2  | float         | RO  | 0       | 42325          |
| V_L23_H_AMPLITUDE_3  | Line Voltage L2-L3 Harmonic amplitude #3  | float         | RO  | 0       | 42327          |
| V_L23_H_AMPLITUDE_4  | Line Voltage L2-L3 Harmonic amplitude #4  | float         | RO  | 0       | 42329          |
| V_L23_H_AMPLITUDE_5  | Line Voltage L2-L3 Harmonic amplitude #5  | float         | RO  | 0       | 42331          |
| V_L23_H_AMPLITUDE_6  | Line Voltage L2-L3 Harmonic amplitude #6  | float         | RO  | 0       | 42333          |
| V_L23_H_AMPLITUDE_7  | Line Voltage L2-L3 Harmonic amplitude #7  | float         | RO  | 0       | 42335          |
| V_L23_H_AMPLITUDE_8  | Line Voltage L2-L3 Harmonic amplitude #8  | float         | RO  | 0       | 42337          |
| V_L23_H_AMPLITUDE_9  | Line Voltage L2-L3 Harmonic amplitude #9  | float         | RO  | 0       | 42339          |
| V_L23_H_AMPLITUDE_10 | Line Voltage L2-L3 Harmonic amplitude #10 | float         | RO  | 0       | 42341          |
| V_L23_H_AMPLITUDE_11 | Line Voltage L2-L3 Harmonic amplitude #11 | float         | RO  | 0       | 42343          |
| V_L23_H_AMPLITUDE_12 | Line Voltage L2-L3 Harmonic amplitude #12 | float         | RO  | 0       | 42345          |
| V_L23_H_AMPLITUDE_13 | Line Voltage L2-L3 Harmonic amplitude #13 | float         | RO  | 0       | 42347          |
| V_L23_H_AMPLITUDE_14 | Line Voltage L2-L3 Harmonic amplitude #14 | float         | RO  | 0       | 42349          |
| V_L23_H_AMPLITUDE_15 | Line Voltage L2-L3 Harmonic amplitude #15 | float         | RO  | 0       | 42351          |
| V_L23_H_AMPLITUDE_16 | Line Voltage L2-L3 Harmonic amplitude #16 | float         | RO  | 0       | 42353          |
| V_L23_H_AMPLITUDE_17 | Line Voltage L2-L3 Harmonic amplitude #17 | float         | RO  | 0       | 42355          |
| V_L23_H_AMPLITUDE_18 | Line Voltage L2-L3 Harmonic amplitude #18 | float         | RO  | 0       | 42357          |
| V_L23_H_AMPLITUDE_19 | Line Voltage L2-L3 Harmonic amplitude #19 | float         | RO  | 0       | 42359          |
| V_L23_H_AMPLITUDE_20 | Line Voltage L2-L3 Harmonic amplitude #20 | float         | RO  | 0       | 42361          |
| V_L23_H_AMPLITUDE_21 | Line Voltage L2-L3 Harmonic amplitude #21 | float         | RO  | 0       | 42363          |
| V_L23_H_AMPLITUDE_22 | Line Voltage L2-L3 Harmonic amplitude #22 | float         | RO  | 0       | 42365          |
| V_L23_H_AMPLITUDE_23 | Line Voltage L2-L3 Harmonic amplitude #23 | float         | RO  | 0       | 42367          |
| V_L23_H_AMPLITUDE_24 | Line Voltage L2-L3 Harmonic amplitude #24 | float         | RO  | 0       | 42369          |
| V_L23_H_AMPLITUDE_25 | Line Voltage L2-L3 Harmonic amplitude #25 | float         | RO  | 0       | 42371          |
| V_L23_H_AMPLITUDE_26 | Line Voltage L2-L3 Harmonic amplitude #26 | float         | RO  | 0       | 42373          |
| V_L23_H_AMPLITUDE_27 | Line Voltage L2-L3 Harmonic amplitude #27 | float         | RO  | 0       | 42375          |
| V_L23_H_AMPLITUDE_28 | Line Voltage L2-L3 Harmonic amplitude #28 | float         | RO  | 0       | 42377          |
| V_L23_H_AMPLITUDE_29 | Line Voltage L2-L3 Harmonic amplitude #29 | float         | RO  | 0       | 42379          |
| V_L23_H_AMPLITUDE_30 | Line Voltage L2-L3 Harmonic amplitude #30 | float         | RO  | 0       | 42381          |
| V_L23_H_AMPLITUDE_31 | Line Voltage L2-L3 Harmonic amplitude #31 | float         | RO  | 0       | 42383          |
| V_L23_H_AMPLITUDE_32 | Line Voltage L2-L3 Harmonic amplitude #32 | float         | RO  | 0       | 42385          |
| V_L23_H_AMPLITUDE_33 | Line Voltage L2-L3 Harmonic amplitude #33 | float         | RO  | 0       | 42387          |
| V_L23_H_AMPLITUDE_34 | Line Voltage L2-L3 Harmonic amplitude #34 | float         | RO  | 0       | 42389          |
| V_L23_H_AMPLITUDE_35 | Line Voltage L2-L3 Harmonic amplitude #35 | float         | RO  | 0       | 42391          |
| V_L23_H_AMPLITUDE_36 | Line Voltage L2-L3 Harmonic amplitude #36 | float         | RO  | 0       | 42393          |
| V_L23_H_AMPLITUDE_37 | Line Voltage L2-L3 Harmonic amplitude #37 | float         | RO  | 0       | 42395          |
| V_L23_H_AMPLITUDE_38 | Line Voltage L2-L3 Harmonic amplitude #38 | float         | RO  | 0       | 42397          |
| V_L23_H_AMPLITUDE_39 | Line Voltage L2-L3 Harmonic amplitude #39 | float         | RO  | 0       | 42399          |
| V_L23_H_AMPLITUDE_40 | Line Voltage L2-L3 Harmonic amplitude #40 | float         | RO  | 0       | 42401          |
| V_L23_H_AMPLITUDE_41 | Line Voltage L2-L3 Harmonic amplitude #41 | float         | RO  | 0       | 42403          |
| V_L23_H_AMPLITUDE_42 | Line Voltage L2-L3 Harmonic amplitude #42 | float         | RO  | 0       | 42405          |
| V_L23_H_AMPLITUDE_43 | Line Voltage L2-L3 Harmonic amplitude #43 | float         | RO  | 0       | 42407          |
| V_L23_H_AMPLITUDE_44 | Line Voltage L2-L3 Harmonic amplitude #44 | float         | RO  | 0       | 42409          |
| V_L23_H_AMPLITUDE_45 | Line Voltage L2-L3 Harmonic amplitude #45 | float         | RO  | 0       | 42411          |
| V_L23_H_AMPLITUDE_46 | Line Voltage L2-L3 Harmonic amplitude #46 | float         | RO  | 0       | 42413          |
| V_L23_H_AMPLITUDE_47 | Line Voltage L2-L3 Harmonic amplitude #47 | float         | RO  | 0       | 42415          |
| V_L23_H_AMPLITUDE_48 | Line Voltage L2-L3 Harmonic amplitude #48 | float         | RO  | 0       | 42417          |
| V_L23_H_AMPLITUDE_49 | Line Voltage L2-L3 Harmonic amplitude #49 | float         | RO  | 0       | 42419          |
| V_L23_H_AMPLITUDE_50 | Line Voltage L2-L3 Harmonic amplitude #50 | float         | RO  | 0       | 42421          |
| V_L23_H_AMPLITUDE_51 | Line Voltage L2-L3 Harmonic amplitude #51 | float         | RO  | 0       | 42423          |



R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

Only FULL version

| Register Name        |  | Description                               | Register Type | R/W | Default | Modbus Address |
|----------------------|--|-------------------------------------------|---------------|-----|---------|----------------|
| V_L23_H_AMPLITUDE_52 |  | Line Voltage L2-L3 Harmonic amplitude #52 | float         | RO  | 0       | 42425          |
| V_L23_H_AMPLITUDE_53 |  | Line Voltage L2-L3 Harmonic amplitude #53 | float         | RO  | 0       | 42427          |
| V_L23_H_AMPLITUDE_54 |  | Line Voltage L2-L3 Harmonic amplitude #54 | float         | RO  | 0       | 42429          |
| V_L23_H_AMPLITUDE_55 |  | Line Voltage L2-L3 Harmonic amplitude #55 | float         | RO  | 0       | 42431          |
| V_L23_H_AMPLITUDE_56 |  | Line Voltage L2-L3 Harmonic amplitude #56 | float         | RO  | 0       | 42433          |
| V_L23_H_AMPLITUDE_57 |  | Line Voltage L2-L3 Harmonic amplitude #57 | float         | RO  | 0       | 42435          |
| V_L23_H_AMPLITUDE_58 |  | Line Voltage L2-L3 Harmonic amplitude #58 | float         | RO  | 0       | 42437          |
| V_L23_H_AMPLITUDE_59 |  | Line Voltage L2-L3 Harmonic amplitude #59 | float         | RO  | 0       | 42439          |
| V_L23_H_AMPLITUDE_60 |  | Line Voltage L2-L3 Harmonic amplitude #60 | float         | RO  | 0       | 42441          |
| V_L23_H_AMPLITUDE_61 |  | Line Voltage L2-L3 Harmonic amplitude #61 | float         | RO  | 0       | 42443          |
| V_L23_H_AMPLITUDE_62 |  | Line Voltage L2-L3 Harmonic amplitude #62 | float         | RO  | 0       | 42445          |
| V_L23_H_AMPLITUDE_63 |  | Line Voltage L2-L3 Harmonic amplitude #63 | float         | RO  | 0       | 42447          |
| V_L23_H_PHASE_0      |  | Line Voltage L2-L3 Harmonic phase #0      | float         | RO  | 0       | 42449          |
| V_L23_H_PHASE_1      |  | Line Voltage L2-L3 Harmonic phase #1      | float         | RO  | 0       | 42451          |
| V_L23_H_PHASE_2      |  | Line Voltage L2-L3 Harmonic phase #2      | float         | RO  | 0       | 42453          |
| V_L23_H_PHASE_3      |  | Line Voltage L2-L3 Harmonic phase #3      | float         | RO  | 0       | 42455          |
| V_L23_H_PHASE_4      |  | Line Voltage L2-L3 Harmonic phase #4      | float         | RO  | 0       | 42457          |
| V_L23_H_PHASE_5      |  | Line Voltage L2-L3 Harmonic phase #5      | float         | RO  | 0       | 42459          |
| V_L23_H_PHASE_6      |  | Line Voltage L2-L3 Harmonic phase #6      | float         | RO  | 0       | 42461          |
| V_L23_H_PHASE_7      |  | Line Voltage L2-L3 Harmonic phase #7      | float         | RO  | 0       | 42463          |
| V_L23_H_PHASE_8      |  | Line Voltage L2-L3 Harmonic phase #8      | float         | RO  | 0       | 42465          |
| V_L23_H_PHASE_9      |  | Line Voltage L2-L3 Harmonic phase #9      | float         | RO  | 0       | 42467          |
| V_L23_H_PHASE_10     |  | Line Voltage L2-L3 Harmonic phase #10     | float         | RO  | 0       | 42469          |
| V_L23_H_PHASE_11     |  | Line Voltage L2-L3 Harmonic phase #11     | float         | RO  | 0       | 42471          |
| V_L23_H_PHASE_12     |  | Line Voltage L2-L3 Harmonic phase #12     | float         | RO  | 0       | 42473          |
| V_L23_H_PHASE_13     |  | Line Voltage L2-L3 Harmonic phase #13     | float         | RO  | 0       | 42475          |
| V_L23_H_PHASE_14     |  | Line Voltage L2-L3 Harmonic phase #14     | float         | RO  | 0       | 42477          |
| V_L23_H_PHASE_15     |  | Line Voltage L2-L3 Harmonic phase #15     | float         | RO  | 0       | 42479          |
| V_L23_H_PHASE_16     |  | Line Voltage L2-L3 Harmonic phase #16     | float         | RO  | 0       | 42481          |
| V_L23_H_PHASE_17     |  | Line Voltage L2-L3 Harmonic phase #17     | float         | RO  | 0       | 42483          |
| V_L23_H_PHASE_18     |  | Line Voltage L2-L3 Harmonic phase #18     | float         | RO  | 0       | 42485          |
| V_L23_H_PHASE_19     |  | Line Voltage L2-L3 Harmonic phase #19     | float         | RO  | 0       | 42487          |
| V_L23_H_PHASE_20     |  | Line Voltage L2-L3 Harmonic phase #20     | float         | RO  | 0       | 42489          |
| V_L23_H_PHASE_21     |  | Line Voltage L2-L3 Harmonic phase #21     | float         | RO  | 0       | 42491          |
| V_L23_H_PHASE_22     |  | Line Voltage L2-L3 Harmonic phase #22     | float         | RO  | 0       | 42493          |
| V_L23_H_PHASE_23     |  | Line Voltage L2-L3 Harmonic phase #23     | float         | RO  | 0       | 42495          |
| V_L23_H_PHASE_24     |  | Line Voltage L2-L3 Harmonic phase #24     | float         | RO  | 0       | 42497          |
| V_L23_H_PHASE_25     |  | Line Voltage L2-L3 Harmonic phase #25     | float         | RO  | 0       | 42499          |
| V_L23_H_PHASE_26     |  | Line Voltage L2-L3 Harmonic phase #26     | float         | RO  | 0       | 42501          |
| V_L23_H_PHASE_27     |  | Line Voltage L2-L3 Harmonic phase #27     | float         | RO  | 0       | 42503          |
| V_L23_H_PHASE_28     |  | Line Voltage L2-L3 Harmonic phase #28     | float         | RO  | 0       | 42505          |
| V_L23_H_PHASE_29     |  | Line Voltage L2-L3 Harmonic phase #29     | float         | RO  | 0       | 42507          |
| V_L23_H_PHASE_30     |  | Line Voltage L2-L3 Harmonic phase #30     | float         | RO  | 0       | 42509          |
| V_L23_H_PHASE_31     |  | Line Voltage L2-L3 Harmonic phase #31     | float         | RO  | 0       | 42511          |
| V_L23_H_PHASE_32     |  | Line Voltage L2-L3 Harmonic phase #32     | float         | RO  | 0       | 42513          |
| V_L23_H_PHASE_33     |  | Line Voltage L2-L3 Harmonic phase #33     | float         | RO  | 0       | 42515          |
| V_L23_H_PHASE_34     |  | Line Voltage L2-L3 Harmonic phase #34     | float         | RO  | 0       | 42517          |
| V_L23_H_PHASE_35     |  | Line Voltage L2-L3 Harmonic phase #35     | float         | RO  | 0       | 42519          |
| V_L23_H_PHASE_36     |  | Line Voltage L2-L3 Harmonic phase #36     | float         | RO  | 0       | 42521          |
| V_L23_H_PHASE_37     |  | Line Voltage L2-L3 Harmonic phase #37     | float         | RO  | 0       | 42523          |
| V_L23_H_PHASE_38     |  | Line Voltage L2-L3 Harmonic phase #38     | float         | RO  | 0       | 42525          |
| V_L23_H_PHASE_39     |  | Line Voltage L2-L3 Harmonic phase #39     | float         | RO  | 0       | 42527          |
| V_L23_H_PHASE_40     |  | Line Voltage L2-L3 Harmonic phase #40     | float         | RO  | 0       | 42529          |
| V_L23_H_PHASE_41     |  | Line Voltage L2-L3 Harmonic phase #41     | float         | RO  | 0       | 42531          |
| V_L23_H_PHASE_42     |  | Line Voltage L2-L3 Harmonic phase #42     | float         | RO  | 0       | 42533          |
| V_L23_H_PHASE_43     |  | Line Voltage L2-L3 Harmonic phase #43     | float         | RO  | 0       | 42535          |
| V_L23_H_PHASE_44     |  | Line Voltage L2-L3 Harmonic phase #44     | float         | RO  | 0       | 42537          |
| V_L23_H_PHASE_45     |  | Line Voltage L2-L3 Harmonic phase #45     | float         | RO  | 0       | 42539          |
| V_L23_H_PHASE_46     |  | Line Voltage L2-L3 Harmonic phase #46     | float         | RO  | 0       | 42541          |
| V_L23_H_PHASE_47     |  | Line Voltage L2-L3 Harmonic phase #47     | float         | RO  | 0       | 42543          |
| V_L23_H_PHASE_48     |  | Line Voltage L2-L3 Harmonic phase #48     | float         | RO  | 0       | 42545          |
| V_L23_H_PHASE_49     |  | Line Voltage L2-L3 Harmonic phase #49     | float         | RO  | 0       | 42547          |
| V_L23_H_PHASE_50     |  | Line Voltage L2-L3 Harmonic phase #50     | float         | RO  | 0       | 42549          |
| V_L23_H_PHASE_51     |  | Line Voltage L2-L3 Harmonic phase #51     | float         | RO  | 0       | 42551          |
| V_L23_H_PHASE_52     |  | Line Voltage L2-L3 Harmonic phase #52     | float         | RO  | 0       | 42553          |
| V_L23_H_PHASE_53     |  | Line Voltage L2-L3 Harmonic phase #53     | float         | RO  | 0       | 42555          |
| V_L23_H_PHASE_54     |  | Line Voltage L2-L3 Harmonic phase #54     | float         | RO  | 0       | 42557          |
| V_L23_H_PHASE_55     |  | Line Voltage L2-L3 Harmonic phase #55     | float         | RO  | 0       | 42559          |
| V_L23_H_PHASE_56     |  | Line Voltage L2-L3 Harmonic phase #56     | float         | RO  | 0       | 42561          |
| V_L23_H_PHASE_57     |  | Line Voltage L2-L3 Harmonic phase #57     | float         | RO  | 0       | 42563          |
| V_L23_H_PHASE_58     |  | Line Voltage L2-L3 Harmonic phase #58     | float         | RO  | 0       | 42565          |
| V_L23_H_PHASE_59     |  | Line Voltage L2-L3 Harmonic phase #59     | float         | RO  | 0       | 42567          |
| V_L23_H_PHASE_60     |  | Line Voltage L2-L3 Harmonic phase #60     | float         | RO  | 0       | 42569          |
| V_L23_H_PHASE_61     |  | Line Voltage L2-L3 Harmonic phase #61     | float         | RO  | 0       | 42571          |
| V_L23_H_PHASE_62     |  | Line Voltage L2-L3 Harmonic phase #62     | float         | RO  | 0       | 42573          |
| V_L23_H_PHASE_63     |  | Line Voltage L2-L3 Harmonic phase #63     | float         | RO  | 0       | 42575          |
| V_L31_H_AMPLITUDE_0  |  | Line Voltage L3-L1 Harmonic amplitude #0  | float         | RO  | 0       | 42577          |
| V_L31_H_AMPLITUDE_1  |  | Line Voltage L3-L1 Harmonic amplitude #1  | float         | RO  | 0       | 42579          |
| V_L31_H_AMPLITUDE_2  |  | Line Voltage L3-L1 Harmonic amplitude #2  | float         | RO  | 0       | 42581          |
| V_L31_H_AMPLITUDE_3  |  | Line Voltage L3-L1 Harmonic amplitude #3  | float         | RO  | 0       | 42583          |
| V_L31_H_AMPLITUDE_4  |  | Line Voltage L3-L1 Harmonic amplitude #4  | float         | RO  | 0       | 42585          |
| V_L31_H_AMPLITUDE_5  |  | Line Voltage L3-L1 Harmonic amplitude #5  | float         | RO  | 0       | 42587          |
| V_L31_H_AMPLITUDE_6  |  | Line Voltage L3-L1 Harmonic amplitude #6  | float         | RO  | 0       | 42589          |
| V_L31_H_AMPLITUDE_7  |  | Line Voltage L3-L1 Harmonic amplitude #7  | float         | RO  | 0       | 42591          |
| V_L31_H_AMPLITUDE_8  |  | Line Voltage L3-L1 Harmonic amplitude #8  | float         | RO  | 0       | 42593          |
| V_L31_H_AMPLITUDE_9  |  | Line Voltage L3-L1 Harmonic amplitude #9  | float         | RO  | 0       | 42595          |
| V_L31_H_AMPLITUDE_10 |  | Line Voltage L3-L1 Harmonic amplitude #10 | float         | RO  | 0       | 42597          |
| V_L31_H_AMPLITUDE_11 |  | Line Voltage L3-L1 Harmonic amplitude #11 | float         | RO  | 0       | 42599          |
| V_L31_H_AMPLITUDE_12 |  | Line Voltage L3-L1 Harmonic amplitude #12 | float         | RO  | 0       | 42601          |
| V_L31_H_AMPLITUDE_13 |  | Line Voltage L3-L1 Harmonic amplitude #13 | float         | RO  | 0       | 42603          |
| V_L31_H_AMPLITUDE_14 |  | Line Voltage L3-L1 Harmonic amplitude #14 | float         | RO  | 0       | 42605          |
| V_L31_H_AMPLITUDE_15 |  | Line Voltage L3-L1 Harmonic amplitude #15 | float         | RO  | 0       | 42607          |
| V_L31_H_AMPLITUDE_16 |  | Line Voltage L3-L1 Harmonic amplitude #16 | float         | RO  | 0       | 42609          |
| V_L31_H_AMPLITUDE_17 |  | Line Voltage L3-L1 Harmonic amplitude #17 | float         | RO  | 0       | 42611          |
| V_L31_H_AMPLITUDE_18 |  | Line Voltage L3-L1 Harmonic amplitude #18 | float         | RO  | 0       | 42613          |
| V_L31_H_AMPLITUDE_19 |  | Line Voltage L3-L1 Harmonic amplitude #19 | float         | RO  | 0       | 42615          |
| V_L31_H_AMPLITUDE_20 |  | Line Voltage L3-L1 Harmonic amplitude #20 | float         | RO  | 0       | 42617          |
| V_L31_H_AMPLITUDE_21 |  | Line Voltage L3-L1 Harmonic amplitude #21 | float         | RO  | 0       | 42619          |
| V_L31_H_AMPLITUDE_22 |  | Line Voltage L3-L1 Harmonic amplitude #22 | float         | RO  | 0       | 42621          |
| V_L31_H_AMPLITUDE_23 |  | Line Voltage L3-L1 Harmonic amplitude #23 | float         | RO  | 0       | 42623          |
| V_L31_H_AMPLITUDE_24 |  | Line Voltage L3-L1 Harmonic amplitude #24 | float         | RO  | 0       | 42625          |
| V_L31_H_AMPLITUDE_25 |  | Line Voltage L3-L1 Harmonic amplitude #25 | float         | RO  | 0       | 42627          |
| V_L31_H_AMPLITUDE_26 |  | Line Voltage L3-L1 Harmonic amplitude #26 | float         | RO  | 0       | 42629          |
| V_L31_H_AMPLITUDE_27 |  | Line Voltage L3-L1 Harmonic amplitude #27 | float         | RO  | 0       | 42631          |
| V_L31_H_AMPLITUDE_28 |  | Line Voltage L3-L1 Harmonic amplitude #28 | float         | RO  | 0       | 42633          |
| V_L31_H_AMPLITUDE_29 |  | Line Voltage L3-L1 Harmonic amplitude #29 | float         | RO  | 0       | 42635          |
| V_L31_H_AMPLITUDE_30 |  | Line Voltage L3-L1 Harmonic amplitude #30 | float         | RO  | 0       | 42637          |
| V_L31_H_AMPLITUDE_31 |  | Line Voltage L3-L1 Harmonic amplitude #31 | float         | RO  | 0       | 42639          |
| V_L31_H_AMPLITUDE_32 |  | Line Voltage L3-L1 Harmonic amplitude #32 | float         | RO  | 0       | 42641          |
| V_L31_H_AMPLITUDE_33 |  | Line Voltage L3-L1 Harmonic amplitude #33 | float         | RO  | 0       | 42643          |
| V_L31_H_AMPLITUDE_34 |  | Line Voltage L3-L1 Harmonic amplitude #34 | float         | RO  | 0       | 42645          |
| V_L31_H_AMPLITUDE_35 |  | Line Voltage L3-L1 Harmonic amplitude #35 | float         | RO  | 0       | 42647          |
| V_L31_H_AMPLITUDE_36 |  | Line Voltage L3-L1 Harmonic amplitude #36 | float         | RO  | 0       | 42649          |
| V_L31_H_AMPLITUDE_37 |  | Line Voltage L3-L1 Harmonic amplitude #37 | float         | RO  | 0       | 42651          |
| V_L31_H_AMPLITUDE_38 |  | Line Voltage L3-L1 Harmonic amplitude #38 | float         | RO  | 0       | 42653          |
| V_L31_H_AMPLITUDE_39 |  | Line Voltage L3-L1 Harmonic amplitude #39 | float         | RO  | 0       | 42655          |
| V_L31_H_AMPLITUDE_40 |  | Line Voltage L3-L1 Harmonic amplitude #40 | float         | RO  | 0       | 42657          |
| V_L31_H_AMPLITUDE_41 |  | Line Voltage L3-L1 Harmonic amplitude #41 | float         | RO  | 0       | 42659          |
| V_L31_H_AMPLITUDE_42 |  | Line Voltage L3-L1 Harmonic amplitude #42 | float         | RO  | 0       | 42661          |
| V_L31_H_AMPLITUDE_43 |  | Line Voltage L3-L1 Harmonic amplitude #43 | float         | RO  | 0       | 42663          |
| V_L31_H_AMPLITUDE_44 |  | Line Voltage L3-L1 Harmonic amplitude #44 | float         | RO  | 0       | 42665          |



Only FULL version

- R/W legend:
- RO: Read only
  - WO: Write only
  - R/W: Read and write

| Register Name        |  | Description                               | Register Type | R/W | Default | Modbus Address |
|----------------------|--|-------------------------------------------|---------------|-----|---------|----------------|
| V L31 H AMPLITUDE 45 |  | Line Voltage L3-L1 Harmonic amplitude #45 | float         | RO  | 0       | 42667          |
| V L31 H AMPLITUDE 46 |  | Line Voltage L3-L1 Harmonic amplitude #46 | float         | RO  | 0       | 42669          |
| V L31 H AMPLITUDE 47 |  | Line Voltage L3-L1 Harmonic amplitude #47 | float         | RO  | 0       | 42671          |
| V L31 H AMPLITUDE 48 |  | Line Voltage L3-L1 Harmonic amplitude #48 | float         | RO  | 0       | 42673          |
| V L31 H AMPLITUDE 49 |  | Line Voltage L3-L1 Harmonic amplitude #49 | float         | RO  | 0       | 42675          |
| V L31 H AMPLITUDE 50 |  | Line Voltage L3-L1 Harmonic amplitude #50 | float         | RO  | 0       | 42677          |
| V L31 H AMPLITUDE 51 |  | Line Voltage L3-L1 Harmonic amplitude #51 | float         | RO  | 0       | 42679          |
| V L31 H AMPLITUDE 52 |  | Line Voltage L3-L1 Harmonic amplitude #52 | float         | RO  | 0       | 42681          |
| V L31 H AMPLITUDE 53 |  | Line Voltage L3-L1 Harmonic amplitude #53 | float         | RO  | 0       | 42683          |
| V L31 H AMPLITUDE 54 |  | Line Voltage L3-L1 Harmonic amplitude #54 | float         | RO  | 0       | 42685          |
| V L31 H AMPLITUDE 55 |  | Line Voltage L3-L1 Harmonic amplitude #55 | float         | RO  | 0       | 42687          |
| V L31 H AMPLITUDE 56 |  | Line Voltage L3-L1 Harmonic amplitude #56 | float         | RO  | 0       | 42689          |
| V L31 H AMPLITUDE 57 |  | Line Voltage L3-L1 Harmonic amplitude #57 | float         | RO  | 0       | 42691          |
| V L31 H AMPLITUDE 58 |  | Line Voltage L3-L1 Harmonic amplitude #58 | float         | RO  | 0       | 42693          |
| V L31 H AMPLITUDE 59 |  | Line Voltage L3-L1 Harmonic amplitude #59 | float         | RO  | 0       | 42695          |
| V L31 H AMPLITUDE 60 |  | Line Voltage L3-L1 Harmonic amplitude #60 | float         | RO  | 0       | 42697          |
| V L31 H AMPLITUDE 61 |  | Line Voltage L3-L1 Harmonic amplitude #61 | float         | RO  | 0       | 42699          |
| V L31 H AMPLITUDE 62 |  | Line Voltage L3-L1 Harmonic amplitude #62 | float         | RO  | 0       | 42701          |
| V L31 H AMPLITUDE 63 |  | Line Voltage L3-L1 Harmonic amplitude #63 | float         | RO  | 0       | 42703          |
| V L31 H PHASE 0      |  | Line Voltage L3-L1 Harmonic phase #0      | float         | RO  | 0       | 42705          |
| V L31 H PHASE 1      |  | Line Voltage L3-L1 Harmonic phase #1      | float         | RO  | 0       | 42707          |
| V L31 H PHASE 2      |  | Line Voltage L3-L1 Harmonic phase #2      | float         | RO  | 0       | 42709          |
| V L31 H PHASE 3      |  | Line Voltage L3-L1 Harmonic phase #3      | float         | RO  | 0       | 42711          |
| V L31 H PHASE 4      |  | Line Voltage L3-L1 Harmonic phase #4      | float         | RO  | 0       | 42713          |
| V L31 H PHASE 5      |  | Line Voltage L3-L1 Harmonic phase #5      | float         | RO  | 0       | 42715          |
| V L31 H PHASE 6      |  | Line Voltage L3-L1 Harmonic phase #6      | float         | RO  | 0       | 42717          |
| V L31 H PHASE 7      |  | Line Voltage L3-L1 Harmonic phase #7      | float         | RO  | 0       | 42719          |
| V L31 H PHASE 8      |  | Line Voltage L3-L1 Harmonic phase #8      | float         | RO  | 0       | 42721          |
| V L31 H PHASE 9      |  | Line Voltage L3-L1 Harmonic phase #9      | float         | RO  | 0       | 42723          |
| V L31 H PHASE 10     |  | Line Voltage L3-L1 Harmonic phase #10     | float         | RO  | 0       | 42725          |
| V L31 H PHASE 11     |  | Line Voltage L3-L1 Harmonic phase #11     | float         | RO  | 0       | 42727          |
| V L31 H PHASE 12     |  | Line Voltage L3-L1 Harmonic phase #12     | float         | RO  | 0       | 42729          |
| V L31 H PHASE 13     |  | Line Voltage L3-L1 Harmonic phase #13     | float         | RO  | 0       | 42731          |
| V L31 H PHASE 14     |  | Line Voltage L3-L1 Harmonic phase #14     | float         | RO  | 0       | 42733          |
| V L31 H PHASE 15     |  | Line Voltage L3-L1 Harmonic phase #15     | float         | RO  | 0       | 42735          |
| V L31 H PHASE 16     |  | Line Voltage L3-L1 Harmonic phase #16     | float         | RO  | 0       | 42737          |
| V L31 H PHASE 17     |  | Line Voltage L3-L1 Harmonic phase #17     | float         | RO  | 0       | 42739          |
| V L31 H PHASE 18     |  | Line Voltage L3-L1 Harmonic phase #18     | float         | RO  | 0       | 42741          |
| V L31 H PHASE 19     |  | Line Voltage L3-L1 Harmonic phase #19     | float         | RO  | 0       | 42743          |
| V L31 H PHASE 20     |  | Line Voltage L3-L1 Harmonic phase #20     | float         | RO  | 0       | 42745          |
| V L31 H PHASE 21     |  | Line Voltage L3-L1 Harmonic phase #21     | float         | RO  | 0       | 42747          |
| V L31 H PHASE 22     |  | Line Voltage L3-L1 Harmonic phase #22     | float         | RO  | 0       | 42749          |
| V L31 H PHASE 23     |  | Line Voltage L3-L1 Harmonic phase #23     | float         | RO  | 0       | 42751          |
| V L31 H PHASE 24     |  | Line Voltage L3-L1 Harmonic phase #24     | float         | RO  | 0       | 42753          |
| V L31 H PHASE 25     |  | Line Voltage L3-L1 Harmonic phase #25     | float         | RO  | 0       | 42755          |
| V L31 H PHASE 26     |  | Line Voltage L3-L1 Harmonic phase #26     | float         | RO  | 0       | 42757          |
| V L31 H PHASE 27     |  | Line Voltage L3-L1 Harmonic phase #27     | float         | RO  | 0       | 42759          |
| V L31 H PHASE 28     |  | Line Voltage L3-L1 Harmonic phase #28     | float         | RO  | 0       | 42761          |
| V L31 H PHASE 29     |  | Line Voltage L3-L1 Harmonic phase #29     | float         | RO  | 0       | 42763          |
| V L31 H PHASE 30     |  | Line Voltage L3-L1 Harmonic phase #30     | float         | RO  | 0       | 42765          |
| V L31 H PHASE 31     |  | Line Voltage L3-L1 Harmonic phase #31     | float         | RO  | 0       | 42767          |
| V L31 H PHASE 32     |  | Line Voltage L3-L1 Harmonic phase #32     | float         | RO  | 0       | 42769          |
| V L31 H PHASE 33     |  | Line Voltage L3-L1 Harmonic phase #33     | float         | RO  | 0       | 42771          |
| V L31 H PHASE 34     |  | Line Voltage L3-L1 Harmonic phase #34     | float         | RO  | 0       | 42773          |
| V L31 H PHASE 35     |  | Line Voltage L3-L1 Harmonic phase #35     | float         | RO  | 0       | 42775          |
| V L31 H PHASE 36     |  | Line Voltage L3-L1 Harmonic phase #36     | float         | RO  | 0       | 42777          |
| V L31 H PHASE 37     |  | Line Voltage L3-L1 Harmonic phase #37     | float         | RO  | 0       | 42779          |
| V L31 H PHASE 38     |  | Line Voltage L3-L1 Harmonic phase #38     | float         | RO  | 0       | 42781          |
| V L31 H PHASE 39     |  | Line Voltage L3-L1 Harmonic phase #39     | float         | RO  | 0       | 42783          |
| V L31 H PHASE 40     |  | Line Voltage L3-L1 Harmonic phase #40     | float         | RO  | 0       | 42785          |
| V L31 H PHASE 41     |  | Line Voltage L3-L1 Harmonic phase #41     | float         | RO  | 0       | 42787          |
| V L31 H PHASE 42     |  | Line Voltage L3-L1 Harmonic phase #42     | float         | RO  | 0       | 42789          |
| V L31 H PHASE 43     |  | Line Voltage L3-L1 Harmonic phase #43     | float         | RO  | 0       | 42791          |
| V L31 H PHASE 44     |  | Line Voltage L3-L1 Harmonic phase #44     | float         | RO  | 0       | 42793          |
| V L31 H PHASE 45     |  | Line Voltage L3-L1 Harmonic phase #45     | float         | RO  | 0       | 42795          |
| V L31 H PHASE 46     |  | Line Voltage L3-L1 Harmonic phase #46     | float         | RO  | 0       | 42797          |
| V L31 H PHASE 47     |  | Line Voltage L3-L1 Harmonic phase #47     | float         | RO  | 0       | 42799          |
| V L31 H PHASE 48     |  | Line Voltage L3-L1 Harmonic phase #48     | float         | RO  | 0       | 42801          |
| V L31 H PHASE 49     |  | Line Voltage L3-L1 Harmonic phase #49     | float         | RO  | 0       | 42803          |
| V L31 H PHASE 50     |  | Line Voltage L3-L1 Harmonic phase #50     | float         | RO  | 0       | 42805          |
| V L31 H PHASE 51     |  | Line Voltage L3-L1 Harmonic phase #51     | float         | RO  | 0       | 42807          |
| V L31 H PHASE 52     |  | Line Voltage L3-L1 Harmonic phase #52     | float         | RO  | 0       | 42809          |
| V L31 H PHASE 53     |  | Line Voltage L3-L1 Harmonic phase #53     | float         | RO  | 0       | 42811          |
| V L31 H PHASE 54     |  | Line Voltage L3-L1 Harmonic phase #54     | float         | RO  | 0       | 42813          |
| V L31 H PHASE 55     |  | Line Voltage L3-L1 Harmonic phase #55     | float         | RO  | 0       | 42815          |
| V L31 H PHASE 56     |  | Line Voltage L3-L1 Harmonic phase #56     | float         | RO  | 0       | 42817          |
| V L31 H PHASE 57     |  | Line Voltage L3-L1 Harmonic phase #57     | float         | RO  | 0       | 42819          |
| V L31 H PHASE 58     |  | Line Voltage L3-L1 Harmonic phase #58     | float         | RO  | 0       | 42821          |
| V L31 H PHASE 59     |  | Line Voltage L3-L1 Harmonic phase #59     | float         | RO  | 0       | 42823          |
| V L31 H PHASE 60     |  | Line Voltage L3-L1 Harmonic phase #60     | float         | RO  | 0       | 42825          |
| V L31 H PHASE 61     |  | Line Voltage L3-L1 Harmonic phase #61     | float         | RO  | 0       | 42827          |
| V L31 H PHASE 62     |  | Line Voltage L3-L1 Harmonic phase #62     | float         | RO  | 0       | 42829          |
| V L31 H PHASE 63     |  | Line Voltage L3-L1 Harmonic phase #63     | float         | RO  | 0       | 42831          |
| I L1 H AMPLITUDE 0   |  | Line Current L1 Harmonic amplitude #0     | float         | RO  | 0       | 42833          |
| I L1 H AMPLITUDE 1   |  | Line Current L1 Harmonic amplitude #1     | float         | RO  | 0       | 42835          |
| I L1 H AMPLITUDE 2   |  | Line Current L1 Harmonic amplitude #2     | float         | RO  | 0       | 42837          |
| I L1 H AMPLITUDE 3   |  | Line Current L1 Harmonic amplitude #3     | float         | RO  | 0       | 42839          |
| I L1 H AMPLITUDE 4   |  | Line Current L1 Harmonic amplitude #4     | float         | RO  | 0       | 42841          |
| I L1 H AMPLITUDE 5   |  | Line Current L1 Harmonic amplitude #5     | float         | RO  | 0       | 42843          |
| I L1 H AMPLITUDE 6   |  | Line Current L1 Harmonic amplitude #6     | float         | RO  | 0       | 42845          |
| I L1 H AMPLITUDE 7   |  | Line Current L1 Harmonic amplitude #7     | float         | RO  | 0       | 42847          |
| I L1 H AMPLITUDE 8   |  | Line Current L1 Harmonic amplitude #8     | float         | RO  | 0       | 42849          |
| I L1 H AMPLITUDE 9   |  | Line Current L1 Harmonic amplitude #9     | float         | RO  | 0       | 42851          |
| I L1 H AMPLITUDE 10  |  | Line Current L1 Harmonic amplitude #10    | float         | RO  | 0       | 42853          |
| I L1 H AMPLITUDE 11  |  | Line Current L1 Harmonic amplitude #11    | float         | RO  | 0       | 42855          |
| I L1 H AMPLITUDE 12  |  | Line Current L1 Harmonic amplitude #12    | float         | RO  | 0       | 42857          |
| I L1 H AMPLITUDE 13  |  | Line Current L1 Harmonic amplitude #13    | float         | RO  | 0       | 42859          |
| I L1 H AMPLITUDE 14  |  | Line Current L1 Harmonic amplitude #14    | float         | RO  | 0       | 42861          |
| I L1 H AMPLITUDE 15  |  | Line Current L1 Harmonic amplitude #15    | float         | RO  | 0       | 42863          |
| I L1 H AMPLITUDE 16  |  | Line Current L1 Harmonic amplitude #16    | float         | RO  | 0       | 42865          |
| I L1 H AMPLITUDE 17  |  | Line Current L1 Harmonic amplitude #17    | float         | RO  | 0       | 42867          |
| I L1 H AMPLITUDE 18  |  | Line Current L1 Harmonic amplitude #18    | float         | RO  | 0       | 42869          |
| I L1 H AMPLITUDE 19  |  | Line Current L1 Harmonic amplitude #19    | float         | RO  | 0       | 42871          |
| I L1 H AMPLITUDE 20  |  | Line Current L1 Harmonic amplitude #20    | float         | RO  | 0       | 42873          |
| I L1 H AMPLITUDE 21  |  | Line Current L1 Harmonic amplitude #21    | float         | RO  | 0       | 42875          |
| I L1 H AMPLITUDE 22  |  | Line Current L1 Harmonic amplitude #22    | float         | RO  | 0       | 42877          |
| I L1 H AMPLITUDE 23  |  | Line Current L1 Harmonic amplitude #23    | float         | RO  | 0       | 42879          |
| I L1 H AMPLITUDE 24  |  | Line Current L1 Harmonic amplitude #24    | float         | RO  | 0       | 42881          |
| I L1 H AMPLITUDE 25  |  | Line Current L1 Harmonic amplitude #25    | float         | RO  | 0       | 42883          |
| I L1 H AMPLITUDE 26  |  | Line Current L1 Harmonic amplitude #26    | float         | RO  | 0       | 42885          |
| I L1 H AMPLITUDE 27  |  | Line Current L1 Harmonic amplitude #27    | float         | RO  | 0       | 42887          |
| I L1 H AMPLITUDE 28  |  | Line Current L1 Harmonic amplitude #28    | float         | RO  | 0       | 42889          |
| I L1 H AMPLITUDE 29  |  | Line Current L1 Harmonic amplitude #29    | float         | RO  | 0       | 42891          |
| I L1 H AMPLITUDE 30  |  | Line Current L1 Harmonic amplitude #30    | float         | RO  | 0       | 42893          |
| I L1 H AMPLITUDE 31  |  | Line Current L1 Harmonic amplitude #31    | float         | RO  | 0       | 42895          |
| I L1 H AMPLITUDE 32  |  | Line Current L1 Harmonic amplitude #32    | float         | RO  | 0       | 42897          |
| I L1 H AMPLITUDE 33  |  | Line Current L1 Harmonic amplitude #33    | float         | RO  | 0       | 42899          |
| I L1 H AMPLITUDE 34  |  | Line Current L1 Harmonic amplitude #34    | float         | RO  | 0       | 42901          |
| I L1 H AMPLITUDE 35  |  | Line Current L1 Harmonic amplitude #35    | float         | RO  | 0       | 42903          |
| I L1 H AMPLITUDE 36  |  | Line Current L1 Harmonic amplitude #36    | float         | RO  | 0       | 42905          |
| I L1 H AMPLITUDE 37  |  | Line Current L1 Harmonic amplitude #37    | float         | RO  | 0       | 42907          |

| Register Name     | Description                            | Register Type | R/W | Default | Modbus Address |
|-------------------|----------------------------------------|---------------|-----|---------|----------------|
| L1 H AMPLITUDE 38 | Line Current L1 Harmonic amplitude #38 | float         | RO  | 0       | 42909          |
| L1 H AMPLITUDE 39 | Line Current L1 Harmonic amplitude #39 | float         | RO  | 0       | 42911          |
| L1 H AMPLITUDE 40 | Line Current L1 Harmonic amplitude #40 | float         | RO  | 0       | 42913          |
| L1 H AMPLITUDE 41 | Line Current L1 Harmonic amplitude #41 | float         | RO  | 0       | 42915          |
| L1 H AMPLITUDE 42 | Line Current L1 Harmonic amplitude #42 | float         | RO  | 0       | 42917          |
| L1 H AMPLITUDE 43 | Line Current L1 Harmonic amplitude #43 | float         | RO  | 0       | 42919          |
| L1 H AMPLITUDE 44 | Line Current L1 Harmonic amplitude #44 | float         | RO  | 0       | 42921          |
| L1 H AMPLITUDE 45 | Line Current L1 Harmonic amplitude #45 | float         | RO  | 0       | 42923          |
| L1 H AMPLITUDE 46 | Line Current L1 Harmonic amplitude #46 | float         | RO  | 0       | 42925          |
| L1 H AMPLITUDE 47 | Line Current L1 Harmonic amplitude #47 | float         | RO  | 0       | 42927          |
| L1 H AMPLITUDE 48 | Line Current L1 Harmonic amplitude #48 | float         | RO  | 0       | 42929          |
| L1 H AMPLITUDE 49 | Line Current L1 Harmonic amplitude #49 | float         | RO  | 0       | 42931          |
| L1 H AMPLITUDE 50 | Line Current L1 Harmonic amplitude #50 | float         | RO  | 0       | 42933          |
| L1 H AMPLITUDE 51 | Line Current L1 Harmonic amplitude #51 | float         | RO  | 0       | 42935          |
| L1 H AMPLITUDE 52 | Line Current L1 Harmonic amplitude #52 | float         | RO  | 0       | 42937          |
| L1 H AMPLITUDE 53 | Line Current L1 Harmonic amplitude #53 | float         | RO  | 0       | 42939          |
| L1 H AMPLITUDE 54 | Line Current L1 Harmonic amplitude #54 | float         | RO  | 0       | 42941          |
| L1 H AMPLITUDE 55 | Line Current L1 Harmonic amplitude #55 | float         | RO  | 0       | 42943          |
| L1 H AMPLITUDE 56 | Line Current L1 Harmonic amplitude #56 | float         | RO  | 0       | 42945          |
| L1 H AMPLITUDE 57 | Line Current L1 Harmonic amplitude #57 | float         | RO  | 0       | 42947          |
| L1 H AMPLITUDE 58 | Line Current L1 Harmonic amplitude #58 | float         | RO  | 0       | 42949          |
| L1 H AMPLITUDE 59 | Line Current L1 Harmonic amplitude #59 | float         | RO  | 0       | 42951          |
| L1 H AMPLITUDE 60 | Line Current L1 Harmonic amplitude #60 | float         | RO  | 0       | 42953          |
| L1 H AMPLITUDE 61 | Line Current L1 Harmonic amplitude #61 | float         | RO  | 0       | 42955          |
| L1 H AMPLITUDE 62 | Line Current L1 Harmonic amplitude #62 | float         | RO  | 0       | 42957          |
| L1 H AMPLITUDE 63 | Line Current L1 Harmonic amplitude #63 | float         | RO  | 0       | 42959          |
| L1 H PHASE 0      | Line Current L1 Harmonic phase #0      | float         | RO  | 0       | 42961          |
| L1 H PHASE 1      | Line Current L1 Harmonic phase #1      | float         | RO  | 0       | 42963          |
| L1 H PHASE 2      | Line Current L1 Harmonic phase #2      | float         | RO  | 0       | 42965          |
| L1 H PHASE 3      | Line Current L1 Harmonic phase #3      | float         | RO  | 0       | 42967          |
| L1 H PHASE 4      | Line Current L1 Harmonic phase #4      | float         | RO  | 0       | 42969          |
| L1 H PHASE 5      | Line Current L1 Harmonic phase #5      | float         | RO  | 0       | 42971          |
| L1 H PHASE 6      | Line Current L1 Harmonic phase #6      | float         | RO  | 0       | 42973          |
| L1 H PHASE 7      | Line Current L1 Harmonic phase #7      | float         | RO  | 0       | 42975          |
| L1 H PHASE 8      | Line Current L1 Harmonic phase #8      | float         | RO  | 0       | 42977          |
| L1 H PHASE 9      | Line Current L1 Harmonic phase #9      | float         | RO  | 0       | 42979          |
| L1 H PHASE 10     | Line Current L1 Harmonic phase #10     | float         | RO  | 0       | 42981          |
| L1 H PHASE 11     | Line Current L1 Harmonic phase #11     | float         | RO  | 0       | 42983          |
| L1 H PHASE 12     | Line Current L1 Harmonic phase #12     | float         | RO  | 0       | 42985          |
| L1 H PHASE 13     | Line Current L1 Harmonic phase #13     | float         | RO  | 0       | 42987          |
| L1 H PHASE 14     | Line Current L1 Harmonic phase #14     | float         | RO  | 0       | 42989          |
| L1 H PHASE 15     | Line Current L1 Harmonic phase #15     | float         | RO  | 0       | 42991          |
| L1 H PHASE 16     | Line Current L1 Harmonic phase #16     | float         | RO  | 0       | 42993          |
| L1 H PHASE 17     | Line Current L1 Harmonic phase #17     | float         | RO  | 0       | 42995          |
| L1 H PHASE 18     | Line Current L1 Harmonic phase #18     | float         | RO  | 0       | 42997          |
| L1 H PHASE 19     | Line Current L1 Harmonic phase #19     | float         | RO  | 0       | 42999          |
| L1 H PHASE 20     | Line Current L1 Harmonic phase #20     | float         | RO  | 0       | 43001          |
| L1 H PHASE 21     | Line Current L1 Harmonic phase #21     | float         | RO  | 0       | 43003          |
| L1 H PHASE 22     | Line Current L1 Harmonic phase #22     | float         | RO  | 0       | 43005          |
| L1 H PHASE 23     | Line Current L1 Harmonic phase #23     | float         | RO  | 0       | 43007          |
| L1 H PHASE 24     | Line Current L1 Harmonic phase #24     | float         | RO  | 0       | 43009          |
| L1 H PHASE 25     | Line Current L1 Harmonic phase #25     | float         | RO  | 0       | 43011          |
| L1 H PHASE 26     | Line Current L1 Harmonic phase #26     | float         | RO  | 0       | 43013          |
| L1 H PHASE 27     | Line Current L1 Harmonic phase #27     | float         | RO  | 0       | 43015          |
| L1 H PHASE 28     | Line Current L1 Harmonic phase #28     | float         | RO  | 0       | 43017          |
| L1 H PHASE 29     | Line Current L1 Harmonic phase #29     | float         | RO  | 0       | 43019          |
| L1 H PHASE 30     | Line Current L1 Harmonic phase #30     | float         | RO  | 0       | 43021          |
| L1 H PHASE 31     | Line Current L1 Harmonic phase #31     | float         | RO  | 0       | 43023          |
| L1 H PHASE 32     | Line Current L1 Harmonic phase #32     | float         | RO  | 0       | 43025          |
| L1 H PHASE 33     | Line Current L1 Harmonic phase #33     | float         | RO  | 0       | 43027          |
| L1 H PHASE 34     | Line Current L1 Harmonic phase #34     | float         | RO  | 0       | 43029          |
| L1 H PHASE 35     | Line Current L1 Harmonic phase #35     | float         | RO  | 0       | 43031          |
| L1 H PHASE 36     | Line Current L1 Harmonic phase #36     | float         | RO  | 0       | 43033          |
| L1 H PHASE 37     | Line Current L1 Harmonic phase #37     | float         | RO  | 0       | 43035          |
| L1 H PHASE 38     | Line Current L1 Harmonic phase #38     | float         | RO  | 0       | 43037          |
| L1 H PHASE 39     | Line Current L1 Harmonic phase #39     | float         | RO  | 0       | 43039          |
| L1 H PHASE 40     | Line Current L1 Harmonic phase #40     | float         | RO  | 0       | 43041          |
| L1 H PHASE 41     | Line Current L1 Harmonic phase #41     | float         | RO  | 0       | 43043          |
| L1 H PHASE 42     | Line Current L1 Harmonic phase #42     | float         | RO  | 0       | 43045          |
| L1 H PHASE 43     | Line Current L1 Harmonic phase #43     | float         | RO  | 0       | 43047          |
| L1 H PHASE 44     | Line Current L1 Harmonic phase #44     | float         | RO  | 0       | 43049          |
| L1 H PHASE 45     | Line Current L1 Harmonic phase #45     | float         | RO  | 0       | 43051          |
| L1 H PHASE 46     | Line Current L1 Harmonic phase #46     | float         | RO  | 0       | 43053          |
| L1 H PHASE 47     | Line Current L1 Harmonic phase #47     | float         | RO  | 0       | 43055          |
| L1 H PHASE 48     | Line Current L1 Harmonic phase #48     | float         | RO  | 0       | 43057          |
| L1 H PHASE 49     | Line Current L1 Harmonic phase #49     | float         | RO  | 0       | 43059          |
| L1 H PHASE 50     | Line Current L1 Harmonic phase #50     | float         | RO  | 0       | 43061          |
| L1 H PHASE 51     | Line Current L1 Harmonic phase #51     | float         | RO  | 0       | 43063          |
| L1 H PHASE 52     | Line Current L1 Harmonic phase #52     | float         | RO  | 0       | 43065          |
| L1 H PHASE 53     | Line Current L1 Harmonic phase #53     | float         | RO  | 0       | 43067          |
| L1 H PHASE 54     | Line Current L1 Harmonic phase #54     | float         | RO  | 0       | 43069          |
| L1 H PHASE 55     | Line Current L1 Harmonic phase #55     | float         | RO  | 0       | 43071          |
| L1 H PHASE 56     | Line Current L1 Harmonic phase #56     | float         | RO  | 0       | 43073          |
| L1 H PHASE 57     | Line Current L1 Harmonic phase #57     | float         | RO  | 0       | 43075          |
| L1 H PHASE 58     | Line Current L1 Harmonic phase #58     | float         | RO  | 0       | 43077          |
| L1 H PHASE 59     | Line Current L1 Harmonic phase #59     | float         | RO  | 0       | 43079          |
| L1 H PHASE 60     | Line Current L1 Harmonic phase #60     | float         | RO  | 0       | 43081          |
| L1 H PHASE 61     | Line Current L1 Harmonic phase #61     | float         | RO  | 0       | 43083          |
| L1 H PHASE 62     | Line Current L1 Harmonic phase #62     | float         | RO  | 0       | 43085          |
| L1 H PHASE 63     | Line Current L1 Harmonic phase #63     | float         | RO  | 0       | 43087          |
| L2 H AMPLITUDE 0  | Line Current L2 Harmonic amplitude #0  | float         | RO  | 0       | 43089          |
| L2 H AMPLITUDE 1  | Line Current L2 Harmonic amplitude #1  | float         | RO  | 0       | 43091          |
| L2 H AMPLITUDE 2  | Line Current L2 Harmonic amplitude #2  | float         | RO  | 0       | 43093          |
| L2 H AMPLITUDE 3  | Line Current L2 Harmonic amplitude #3  | float         | RO  | 0       | 43095          |
| L2 H AMPLITUDE 4  | Line Current L2 Harmonic amplitude #4  | float         | RO  | 0       | 43097          |
| L2 H AMPLITUDE 5  | Line Current L2 Harmonic amplitude #5  | float         | RO  | 0       | 43099          |
| L2 H AMPLITUDE 6  | Line Current L2 Harmonic amplitude #6  | float         | RO  | 0       | 43101          |
| L2 H AMPLITUDE 7  | Line Current L2 Harmonic amplitude #7  | float         | RO  | 0       | 43103          |
| L2 H AMPLITUDE 8  | Line Current L2 Harmonic amplitude #8  | float         | RO  | 0       | 43105          |
| L2 H AMPLITUDE 9  | Line Current L2 Harmonic amplitude #9  | float         | RO  | 0       | 43107          |
| L2 H AMPLITUDE 10 | Line Current L2 Harmonic amplitude #10 | float         | RO  | 0       | 43109          |
| L2 H AMPLITUDE 11 | Line Current L2 Harmonic amplitude #11 | float         | RO  | 0       | 43111          |
| L2 H AMPLITUDE 12 | Line Current L2 Harmonic amplitude #12 | float         | RO  | 0       | 43113          |
| L2 H AMPLITUDE 13 | Line Current L2 Harmonic amplitude #13 | float         | RO  | 0       | 43115          |
| L2 H AMPLITUDE 14 | Line Current L2 Harmonic amplitude #14 | float         | RO  | 0       | 43117          |
| L2 H AMPLITUDE 15 | Line Current L2 Harmonic amplitude #15 | float         | RO  | 0       | 43119          |
| L2 H AMPLITUDE 16 | Line Current L2 Harmonic amplitude #16 | float         | RO  | 0       | 43121          |
| L2 H AMPLITUDE 17 | Line Current L2 Harmonic amplitude #17 | float         | RO  | 0       | 43123          |
| L2 H AMPLITUDE 18 | Line Current L2 Harmonic amplitude #18 | float         | RO  | 0       | 43125          |
| L2 H AMPLITUDE 19 | Line Current L2 Harmonic amplitude #19 | float         | RO  | 0       | 43127          |
| L2 H AMPLITUDE 20 | Line Current L2 Harmonic amplitude #20 | float         | RO  | 0       | 43129          |
| L2 H AMPLITUDE 21 | Line Current L2 Harmonic amplitude #21 | float         | RO  | 0       | 43131          |
| L2 H AMPLITUDE 22 | Line Current L2 Harmonic amplitude #22 | float         | RO  | 0       | 43133          |
| L2 H AMPLITUDE 23 | Line Current L2 Harmonic amplitude #23 | float         | RO  | 0       | 43135          |
| L2 H AMPLITUDE 24 | Line Current L2 Harmonic amplitude #24 | float         | RO  | 0       | 43137          |
| L2 H AMPLITUDE 25 | Line Current L2 Harmonic amplitude #25 | float         | RO  | 0       | 43139          |
| L2 H AMPLITUDE 26 | Line Current L2 Harmonic amplitude #26 | float         | RO  | 0       | 43141          |
| L2 H AMPLITUDE 27 | Line Current L2 Harmonic amplitude #27 | float         | RO  | 0       | 43143          |
| L2 H AMPLITUDE 28 | Line Current L2 Harmonic amplitude #28 | float         | RO  | 0       | 43145          |
| L2 H AMPLITUDE 29 | Line Current L2 Harmonic amplitude #29 | float         | RO  | 0       | 43147          |
| L2 H AMPLITUDE 30 | Line Current L2 Harmonic amplitude #30 | float         | RO  | 0       | 43149          |

| Register Name     | Description                            | Register Type | R/W | Default | Modbus Address |
|-------------------|----------------------------------------|---------------|-----|---------|----------------|
| L2 H AMPLITUDE 31 | Line Current L2 Harmonic amplitude #31 | float         | RO  | 0       | 43161          |
| L2 H AMPLITUDE 32 | Line Current L2 Harmonic amplitude #32 | float         | RO  | 0       | 43163          |
| L2 H AMPLITUDE 33 | Line Current L2 Harmonic amplitude #33 | float         | RO  | 0       | 43165          |
| L2 H AMPLITUDE 34 | Line Current L2 Harmonic amplitude #34 | float         | RO  | 0       | 43167          |
| L2 H AMPLITUDE 35 | Line Current L2 Harmonic amplitude #35 | float         | RO  | 0       | 43169          |
| L2 H AMPLITUDE 36 | Line Current L2 Harmonic amplitude #36 | float         | RO  | 0       | 43161          |
| L2 H AMPLITUDE 37 | Line Current L2 Harmonic amplitude #37 | float         | RO  | 0       | 43163          |
| L2 H AMPLITUDE 38 | Line Current L2 Harmonic amplitude #38 | float         | RO  | 0       | 43165          |
| L2 H AMPLITUDE 39 | Line Current L2 Harmonic amplitude #39 | float         | RO  | 0       | 43167          |
| L2 H AMPLITUDE 40 | Line Current L2 Harmonic amplitude #40 | float         | RO  | 0       | 43169          |
| L2 H AMPLITUDE 41 | Line Current L2 Harmonic amplitude #41 | float         | RO  | 0       | 43171          |
| L2 H AMPLITUDE 42 | Line Current L2 Harmonic amplitude #42 | float         | RO  | 0       | 43173          |
| L2 H AMPLITUDE 43 | Line Current L2 Harmonic amplitude #43 | float         | RO  | 0       | 43175          |
| L2 H AMPLITUDE 44 | Line Current L2 Harmonic amplitude #44 | float         | RO  | 0       | 43177          |
| L2 H AMPLITUDE 45 | Line Current L2 Harmonic amplitude #45 | float         | RO  | 0       | 43179          |
| L2 H AMPLITUDE 46 | Line Current L2 Harmonic amplitude #46 | float         | RO  | 0       | 43181          |
| L2 H AMPLITUDE 47 | Line Current L2 Harmonic amplitude #47 | float         | RO  | 0       | 43183          |
| L2 H AMPLITUDE 48 | Line Current L2 Harmonic amplitude #48 | float         | RO  | 0       | 43185          |
| L2 H AMPLITUDE 49 | Line Current L2 Harmonic amplitude #49 | float         | RO  | 0       | 43187          |
| L2 H AMPLITUDE 50 | Line Current L2 Harmonic amplitude #50 | float         | RO  | 0       | 43189          |
| L2 H AMPLITUDE 51 | Line Current L2 Harmonic amplitude #51 | float         | RO  | 0       | 43191          |
| L2 H AMPLITUDE 52 | Line Current L2 Harmonic amplitude #52 | float         | RO  | 0       | 43193          |
| L2 H AMPLITUDE 53 | Line Current L2 Harmonic amplitude #53 | float         | RO  | 0       | 43195          |
| L2 H AMPLITUDE 54 | Line Current L2 Harmonic amplitude #54 | float         | RO  | 0       | 43197          |
| L2 H AMPLITUDE 55 | Line Current L2 Harmonic amplitude #55 | float         | RO  | 0       | 43199          |
| L2 H AMPLITUDE 56 | Line Current L2 Harmonic amplitude #56 | float         | RO  | 0       | 43201          |
| L2 H AMPLITUDE 57 | Line Current L2 Harmonic amplitude #57 | float         | RO  | 0       | 43203          |
| L2 H AMPLITUDE 58 | Line Current L2 Harmonic amplitude #58 | float         | RO  | 0       | 43205          |
| L2 H AMPLITUDE 59 | Line Current L2 Harmonic amplitude #59 | float         | RO  | 0       | 43207          |
| L2 H AMPLITUDE 60 | Line Current L2 Harmonic amplitude #60 | float         | RO  | 0       | 43209          |
| L2 H AMPLITUDE 61 | Line Current L2 Harmonic amplitude #61 | float         | RO  | 0       | 43211          |
| L2 H AMPLITUDE 62 | Line Current L2 Harmonic amplitude #62 | float         | RO  | 0       | 43213          |
| L2 H AMPLITUDE 63 | Line Current L2 Harmonic amplitude #63 | float         | RO  | 0       | 43215          |
| L2 H PHASE 0      | Line Current L2 Harmonic phase #0      | float         | RO  | 0       | 43217          |
| L2 H PHASE 1      | Line Current L2 Harmonic phase #1      | float         | RO  | 0       | 43219          |
| L2 H PHASE 2      | Line Current L2 Harmonic phase #2      | float         | RO  | 0       | 43221          |
| L2 H PHASE 3      | Line Current L2 Harmonic phase #3      | float         | RO  | 0       | 43223          |
| L2 H PHASE 4      | Line Current L2 Harmonic phase #4      | float         | RO  | 0       | 43225          |
| L2 H PHASE 5      | Line Current L2 Harmonic phase #5      | float         | RO  | 0       | 43227          |
| L2 H PHASE 6      | Line Current L2 Harmonic phase #6      | float         | RO  | 0       | 43229          |
| L2 H PHASE 7      | Line Current L2 Harmonic phase #7      | float         | RO  | 0       | 43231          |
| L2 H PHASE 8      | Line Current L2 Harmonic phase #8      | float         | RO  | 0       | 43233          |
| L2 H PHASE 9      | Line Current L2 Harmonic phase #9      | float         | RO  | 0       | 43235          |
| L2 H PHASE 10     | Line Current L2 Harmonic phase #10     | float         | RO  | 0       | 43237          |
| L2 H PHASE 11     | Line Current L2 Harmonic phase #11     | float         | RO  | 0       | 43239          |
| L2 H PHASE 12     | Line Current L2 Harmonic phase #12     | float         | RO  | 0       | 43241          |
| L2 H PHASE 13     | Line Current L2 Harmonic phase #13     | float         | RO  | 0       | 43243          |
| L2 H PHASE 14     | Line Current L2 Harmonic phase #14     | float         | RO  | 0       | 43245          |
| L2 H PHASE 15     | Line Current L2 Harmonic phase #15     | float         | RO  | 0       | 43247          |
| L2 H PHASE 16     | Line Current L2 Harmonic phase #16     | float         | RO  | 0       | 43249          |
| L2 H PHASE 17     | Line Current L2 Harmonic phase #17     | float         | RO  | 0       | 43251          |
| L2 H PHASE 18     | Line Current L2 Harmonic phase #18     | float         | RO  | 0       | 43253          |
| L2 H PHASE 19     | Line Current L2 Harmonic phase #19     | float         | RO  | 0       | 43255          |
| L2 H PHASE 20     | Line Current L2 Harmonic phase #20     | float         | RO  | 0       | 43257          |
| L2 H PHASE 21     | Line Current L2 Harmonic phase #21     | float         | RO  | 0       | 43259          |
| L2 H PHASE 22     | Line Current L2 Harmonic phase #22     | float         | RO  | 0       | 43261          |
| L2 H PHASE 23     | Line Current L2 Harmonic phase #23     | float         | RO  | 0       | 43263          |
| L2 H PHASE 24     | Line Current L2 Harmonic phase #24     | float         | RO  | 0       | 43265          |
| L2 H PHASE 25     | Line Current L2 Harmonic phase #25     | float         | RO  | 0       | 43267          |
| L2 H PHASE 26     | Line Current L2 Harmonic phase #26     | float         | RO  | 0       | 43269          |
| L2 H PHASE 27     | Line Current L2 Harmonic phase #27     | float         | RO  | 0       | 43271          |
| L2 H PHASE 28     | Line Current L2 Harmonic phase #28     | float         | RO  | 0       | 43273          |
| L2 H PHASE 29     | Line Current L2 Harmonic phase #29     | float         | RO  | 0       | 43275          |
| L2 H PHASE 30     | Line Current L2 Harmonic phase #30     | float         | RO  | 0       | 43277          |
| L2 H PHASE 31     | Line Current L2 Harmonic phase #31     | float         | RO  | 0       | 43279          |
| L2 H PHASE 32     | Line Current L2 Harmonic phase #32     | float         | RO  | 0       | 43281          |
| L2 H PHASE 33     | Line Current L2 Harmonic phase #33     | float         | RO  | 0       | 43283          |
| L2 H PHASE 34     | Line Current L2 Harmonic phase #34     | float         | RO  | 0       | 43285          |
| L2 H PHASE 35     | Line Current L2 Harmonic phase #35     | float         | RO  | 0       | 43287          |
| L2 H PHASE 36     | Line Current L2 Harmonic phase #36     | float         | RO  | 0       | 43289          |
| L2 H PHASE 37     | Line Current L2 Harmonic phase #37     | float         | RO  | 0       | 43291          |
| L2 H PHASE 38     | Line Current L2 Harmonic phase #38     | float         | RO  | 0       | 43293          |
| L2 H PHASE 39     | Line Current L2 Harmonic phase #39     | float         | RO  | 0       | 43295          |
| L2 H PHASE 40     | Line Current L2 Harmonic phase #40     | float         | RO  | 0       | 43297          |
| L2 H PHASE 41     | Line Current L2 Harmonic phase #41     | float         | RO  | 0       | 43299          |
| L2 H PHASE 42     | Line Current L2 Harmonic phase #42     | float         | RO  | 0       | 43301          |
| L2 H PHASE 43     | Line Current L2 Harmonic phase #43     | float         | RO  | 0       | 43303          |
| L2 H PHASE 44     | Line Current L2 Harmonic phase #44     | float         | RO  | 0       | 43305          |
| L2 H PHASE 45     | Line Current L2 Harmonic phase #45     | float         | RO  | 0       | 43307          |
| L2 H PHASE 46     | Line Current L2 Harmonic phase #46     | float         | RO  | 0       | 43309          |
| L2 H PHASE 47     | Line Current L2 Harmonic phase #47     | float         | RO  | 0       | 43311          |
| L2 H PHASE 48     | Line Current L2 Harmonic phase #48     | float         | RO  | 0       | 43313          |
| L2 H PHASE 49     | Line Current L2 Harmonic phase #49     | float         | RO  | 0       | 43315          |
| L2 H PHASE 50     | Line Current L2 Harmonic phase #50     | float         | RO  | 0       | 43317          |
| L2 H PHASE 51     | Line Current L2 Harmonic phase #51     | float         | RO  | 0       | 43319          |
| L2 H PHASE 52     | Line Current L2 Harmonic phase #52     | float         | RO  | 0       | 43321          |
| L2 H PHASE 53     | Line Current L2 Harmonic phase #53     | float         | RO  | 0       | 43323          |
| L2 H PHASE 54     | Line Current L2 Harmonic phase #54     | float         | RO  | 0       | 43325          |
| L2 H PHASE 55     | Line Current L2 Harmonic phase #55     | float         | RO  | 0       | 43327          |
| L2 H PHASE 56     | Line Current L2 Harmonic phase #56     | float         | RO  | 0       | 43329          |
| L2 H PHASE 57     | Line Current L2 Harmonic phase #57     | float         | RO  | 0       | 43331          |
| L2 H PHASE 58     | Line Current L2 Harmonic phase #58     | float         | RO  | 0       | 43333          |
| L2 H PHASE 59     | Line Current L2 Harmonic phase #59     | float         | RO  | 0       | 43335          |
| L2 H PHASE 60     | Line Current L2 Harmonic phase #60     | float         | RO  | 0       | 43337          |
| L2 H PHASE 61     | Line Current L2 Harmonic phase #61     | float         | RO  | 0       | 43339          |
| L2 H PHASE 62     | Line Current L2 Harmonic phase #62     | float         | RO  | 0       | 43341          |
| L2 H PHASE 63     | Line Current L2 Harmonic phase #63     | float         | RO  | 0       | 43343          |
| L3 H AMPLITUDE 0  | Line Current L3 Harmonic amplitude #0  | float         | RO  | 0       | 43345          |
| L3 H AMPLITUDE 1  | Line Current L3 Harmonic amplitude #1  | float         | RO  | 0       | 43347          |
| L3 H AMPLITUDE 2  | Line Current L3 Harmonic amplitude #2  | float         | RO  | 0       | 43349          |
| L3 H AMPLITUDE 3  | Line Current L3 Harmonic amplitude #3  | float         | RO  | 0       | 43351          |
| L3 H AMPLITUDE 4  | Line Current L3 Harmonic amplitude #4  | float         | RO  | 0       | 43353          |
| L3 H AMPLITUDE 5  | Line Current L3 Harmonic amplitude #5  | float         | RO  | 0       | 43355          |
| L3 H AMPLITUDE 6  | Line Current L3 Harmonic amplitude #6  | float         | RO  | 0       | 43357          |
| L3 H AMPLITUDE 7  | Line Current L3 Harmonic amplitude #7  | float         | RO  | 0       | 43359          |
| L3 H AMPLITUDE 8  | Line Current L3 Harmonic amplitude #8  | float         | RO  | 0       | 43361          |
| L3 H AMPLITUDE 9  | Line Current L3 Harmonic amplitude #9  | float         | RO  | 0       | 43363          |
| L3 H AMPLITUDE 10 | Line Current L3 Harmonic amplitude #10 | float         | RO  | 0       | 43365          |
| L3 H AMPLITUDE 11 | Line Current L3 Harmonic amplitude #11 | float         | RO  | 0       | 43367          |
| L3 H AMPLITUDE 12 | Line Current L3 Harmonic amplitude #12 | float         | RO  | 0       | 43369          |
| L3 H AMPLITUDE 13 | Line Current L3 Harmonic amplitude #13 | float         | RO  | 0       | 43371          |
| L3 H AMPLITUDE 14 | Line Current L3 Harmonic amplitude #14 | float         | RO  | 0       | 43373          |
| L3 H AMPLITUDE 15 | Line Current L3 Harmonic amplitude #15 | float         | RO  | 0       | 43375          |
| L3 H AMPLITUDE 16 | Line Current L3 Harmonic amplitude #16 | float         | RO  | 0       | 43377          |
| L3 H AMPLITUDE 17 | Line Current L3 Harmonic amplitude #17 | float         | RO  | 0       | 43379          |
| L3 H AMPLITUDE 18 | Line Current L3 Harmonic amplitude #18 | float         | RO  | 0       | 43381          |
| L3 H AMPLITUDE 19 | Line Current L3 Harmonic amplitude #19 | float         | RO  | 0       | 43383          |
| L3 H AMPLITUDE 20 | Line Current L3 Harmonic amplitude #20 | float         | RO  | 0       | 43385          |
| L3 H AMPLITUDE 21 | Line Current L3 Harmonic amplitude #21 | float         | RO  | 0       | 43387          |
| L3 H AMPLITUDE 22 | Line Current L3 Harmonic amplitude #22 | float         | RO  | 0       | 43389          |
| L3 H AMPLITUDE 23 | Line Current L3 Harmonic amplitude #23 | float         | RO  | 0       | 43391          |

R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

Only FULL version

| Register Name     | Description                            | Register Type | R/W | Default | Modbus Address |
|-------------------|----------------------------------------|---------------|-----|---------|----------------|
| L3_H_AMPLITUDE_24 | Line Current L3 Harmonic amplitude #24 | float         | RO  | 0       | 43393          |
| L3_H_AMPLITUDE_25 | Line Current L3 Harmonic amplitude #25 | float         | RO  | 0       | 43395          |
| L3_H_AMPLITUDE_26 | Line Current L3 Harmonic amplitude #26 | float         | RO  | 0       | 43397          |
| L3_H_AMPLITUDE_27 | Line Current L3 Harmonic amplitude #27 | float         | RO  | 0       | 43399          |
| L3_H_AMPLITUDE_28 | Line Current L3 Harmonic amplitude #28 | float         | RO  | 0       | 43401          |
| L3_H_AMPLITUDE_29 | Line Current L3 Harmonic amplitude #29 | float         | RO  | 0       | 43403          |
| L3_H_AMPLITUDE_30 | Line Current L3 Harmonic amplitude #30 | float         | RO  | 0       | 43405          |
| L3_H_AMPLITUDE_31 | Line Current L3 Harmonic amplitude #31 | float         | RO  | 0       | 43407          |
| L3_H_AMPLITUDE_32 | Line Current L3 Harmonic amplitude #32 | float         | RO  | 0       | 43409          |
| L3_H_AMPLITUDE_33 | Line Current L3 Harmonic amplitude #33 | float         | RO  | 0       | 43411          |
| L3_H_AMPLITUDE_34 | Line Current L3 Harmonic amplitude #34 | float         | RO  | 0       | 43413          |
| L3_H_AMPLITUDE_35 | Line Current L3 Harmonic amplitude #35 | float         | RO  | 0       | 43415          |
| L3_H_AMPLITUDE_36 | Line Current L3 Harmonic amplitude #36 | float         | RO  | 0       | 43417          |
| L3_H_AMPLITUDE_37 | Line Current L3 Harmonic amplitude #37 | float         | RO  | 0       | 43419          |
| L3_H_AMPLITUDE_38 | Line Current L3 Harmonic amplitude #38 | float         | RO  | 0       | 43421          |
| L3_H_AMPLITUDE_39 | Line Current L3 Harmonic amplitude #39 | float         | RO  | 0       | 43423          |
| L3_H_AMPLITUDE_40 | Line Current L3 Harmonic amplitude #40 | float         | RO  | 0       | 43425          |
| L3_H_AMPLITUDE_41 | Line Current L3 Harmonic amplitude #41 | float         | RO  | 0       | 43427          |
| L3_H_AMPLITUDE_42 | Line Current L3 Harmonic amplitude #42 | float         | RO  | 0       | 43429          |
| L3_H_AMPLITUDE_43 | Line Current L3 Harmonic amplitude #43 | float         | RO  | 0       | 43431          |
| L3_H_AMPLITUDE_44 | Line Current L3 Harmonic amplitude #44 | float         | RO  | 0       | 43433          |
| L3_H_AMPLITUDE_45 | Line Current L3 Harmonic amplitude #45 | float         | RO  | 0       | 43435          |
| L3_H_AMPLITUDE_46 | Line Current L3 Harmonic amplitude #46 | float         | RO  | 0       | 43437          |
| L3_H_AMPLITUDE_47 | Line Current L3 Harmonic amplitude #47 | float         | RO  | 0       | 43439          |
| L3_H_AMPLITUDE_48 | Line Current L3 Harmonic amplitude #48 | float         | RO  | 0       | 43441          |
| L3_H_AMPLITUDE_49 | Line Current L3 Harmonic amplitude #49 | float         | RO  | 0       | 43443          |
| L3_H_AMPLITUDE_50 | Line Current L3 Harmonic amplitude #50 | float         | RO  | 0       | 43445          |
| L3_H_AMPLITUDE_51 | Line Current L3 Harmonic amplitude #51 | float         | RO  | 0       | 43447          |
| L3_H_AMPLITUDE_52 | Line Current L3 Harmonic amplitude #52 | float         | RO  | 0       | 43449          |
| L3_H_AMPLITUDE_53 | Line Current L3 Harmonic amplitude #53 | float         | RO  | 0       | 43451          |
| L3_H_AMPLITUDE_54 | Line Current L3 Harmonic amplitude #54 | float         | RO  | 0       | 43453          |
| L3_H_AMPLITUDE_55 | Line Current L3 Harmonic amplitude #55 | float         | RO  | 0       | 43455          |
| L3_H_AMPLITUDE_56 | Line Current L3 Harmonic amplitude #56 | float         | RO  | 0       | 43457          |
| L3_H_AMPLITUDE_57 | Line Current L3 Harmonic amplitude #57 | float         | RO  | 0       | 43459          |
| L3_H_AMPLITUDE_58 | Line Current L3 Harmonic amplitude #58 | float         | RO  | 0       | 43461          |
| L3_H_AMPLITUDE_59 | Line Current L3 Harmonic amplitude #59 | float         | RO  | 0       | 43463          |
| L3_H_AMPLITUDE_60 | Line Current L3 Harmonic amplitude #60 | float         | RO  | 0       | 43465          |
| L3_H_AMPLITUDE_61 | Line Current L3 Harmonic amplitude #61 | float         | RO  | 0       | 43467          |
| L3_H_AMPLITUDE_62 | Line Current L3 Harmonic amplitude #62 | float         | RO  | 0       | 43469          |
| L3_H_AMPLITUDE_63 | Line Current L3 Harmonic amplitude #63 | float         | RO  | 0       | 43471          |
| L3_H_PHASE_0      | Line Current L3 Harmonic phase #0      | float         | RO  | 0       | 43473          |
| L3_H_PHASE_1      | Line Current L3 Harmonic phase #1      | float         | RO  | 0       | 43475          |
| L3_H_PHASE_2      | Line Current L3 Harmonic phase #2      | float         | RO  | 0       | 43477          |
| L3_H_PHASE_3      | Line Current L3 Harmonic phase #3      | float         | RO  | 0       | 43479          |
| L3_H_PHASE_4      | Line Current L3 Harmonic phase #4      | float         | RO  | 0       | 43481          |
| L3_H_PHASE_5      | Line Current L3 Harmonic phase #5      | float         | RO  | 0       | 43483          |
| L3_H_PHASE_6      | Line Current L3 Harmonic phase #6      | float         | RO  | 0       | 43485          |
| L3_H_PHASE_7      | Line Current L3 Harmonic phase #7      | float         | RO  | 0       | 43487          |
| L3_H_PHASE_8      | Line Current L3 Harmonic phase #8      | float         | RO  | 0       | 43489          |
| L3_H_PHASE_9      | Line Current L3 Harmonic phase #9      | float         | RO  | 0       | 43491          |
| L3_H_PHASE_10     | Line Current L3 Harmonic phase #10     | float         | RO  | 0       | 43493          |
| L3_H_PHASE_11     | Line Current L3 Harmonic phase #11     | float         | RO  | 0       | 43495          |
| L3_H_PHASE_12     | Line Current L3 Harmonic phase #12     | float         | RO  | 0       | 43497          |
| L3_H_PHASE_13     | Line Current L3 Harmonic phase #13     | float         | RO  | 0       | 43499          |
| L3_H_PHASE_14     | Line Current L3 Harmonic phase #14     | float         | RO  | 0       | 43501          |
| L3_H_PHASE_15     | Line Current L3 Harmonic phase #15     | float         | RO  | 0       | 43503          |
| L3_H_PHASE_16     | Line Current L3 Harmonic phase #16     | float         | RO  | 0       | 43505          |
| L3_H_PHASE_17     | Line Current L3 Harmonic phase #17     | float         | RO  | 0       | 43507          |
| L3_H_PHASE_18     | Line Current L3 Harmonic phase #18     | float         | RO  | 0       | 43509          |
| L3_H_PHASE_19     | Line Current L3 Harmonic phase #19     | float         | RO  | 0       | 43511          |
| L3_H_PHASE_20     | Line Current L3 Harmonic phase #20     | float         | RO  | 0       | 43513          |
| L3_H_PHASE_21     | Line Current L3 Harmonic phase #21     | float         | RO  | 0       | 43515          |
| L3_H_PHASE_22     | Line Current L3 Harmonic phase #22     | float         | RO  | 0       | 43517          |
| L3_H_PHASE_23     | Line Current L3 Harmonic phase #23     | float         | RO  | 0       | 43519          |
| L3_H_PHASE_24     | Line Current L3 Harmonic phase #24     | float         | RO  | 0       | 43521          |
| L3_H_PHASE_25     | Line Current L3 Harmonic phase #25     | float         | RO  | 0       | 43523          |
| L3_H_PHASE_26     | Line Current L3 Harmonic phase #26     | float         | RO  | 0       | 43525          |
| L3_H_PHASE_27     | Line Current L3 Harmonic phase #27     | float         | RO  | 0       | 43527          |
| L3_H_PHASE_28     | Line Current L3 Harmonic phase #28     | float         | RO  | 0       | 43529          |
| L3_H_PHASE_29     | Line Current L3 Harmonic phase #29     | float         | RO  | 0       | 43531          |
| L3_H_PHASE_30     | Line Current L3 Harmonic phase #30     | float         | RO  | 0       | 43533          |
| L3_H_PHASE_31     | Line Current L3 Harmonic phase #31     | float         | RO  | 0       | 43535          |
| L3_H_PHASE_32     | Line Current L3 Harmonic phase #32     | float         | RO  | 0       | 43537          |
| L3_H_PHASE_33     | Line Current L3 Harmonic phase #33     | float         | RO  | 0       | 43539          |
| L3_H_PHASE_34     | Line Current L3 Harmonic phase #34     | float         | RO  | 0       | 43541          |
| L3_H_PHASE_35     | Line Current L3 Harmonic phase #35     | float         | RO  | 0       | 43543          |
| L3_H_PHASE_36     | Line Current L3 Harmonic phase #36     | float         | RO  | 0       | 43545          |
| L3_H_PHASE_37     | Line Current L3 Harmonic phase #37     | float         | RO  | 0       | 43547          |
| L3_H_PHASE_38     | Line Current L3 Harmonic phase #38     | float         | RO  | 0       | 43549          |
| L3_H_PHASE_39     | Line Current L3 Harmonic phase #39     | float         | RO  | 0       | 43551          |
| L3_H_PHASE_40     | Line Current L3 Harmonic phase #40     | float         | RO  | 0       | 43553          |
| L3_H_PHASE_41     | Line Current L3 Harmonic phase #41     | float         | RO  | 0       | 43555          |
| L3_H_PHASE_42     | Line Current L3 Harmonic phase #42     | float         | RO  | 0       | 43557          |
| L3_H_PHASE_43     | Line Current L3 Harmonic phase #43     | float         | RO  | 0       | 43559          |
| L3_H_PHASE_44     | Line Current L3 Harmonic phase #44     | float         | RO  | 0       | 43561          |
| L3_H_PHASE_45     | Line Current L3 Harmonic phase #45     | float         | RO  | 0       | 43563          |
| L3_H_PHASE_46     | Line Current L3 Harmonic phase #46     | float         | RO  | 0       | 43565          |
| L3_H_PHASE_47     | Line Current L3 Harmonic phase #47     | float         | RO  | 0       | 43567          |
| L3_H_PHASE_48     | Line Current L3 Harmonic phase #48     | float         | RO  | 0       | 43569          |
| L3_H_PHASE_49     | Line Current L3 Harmonic phase #49     | float         | RO  | 0       | 43571          |
| L3_H_PHASE_50     | Line Current L3 Harmonic phase #50     | float         | RO  | 0       | 43573          |
| L3_H_PHASE_51     | Line Current L3 Harmonic phase #51     | float         | RO  | 0       | 43575          |
| L3_H_PHASE_52     | Line Current L3 Harmonic phase #52     | float         | RO  | 0       | 43577          |
| L3_H_PHASE_53     | Line Current L3 Harmonic phase #53     | float         | RO  | 0       | 43579          |
| L3_H_PHASE_54     | Line Current L3 Harmonic phase #54     | float         | RO  | 0       | 43581          |
| L3_H_PHASE_55     | Line Current L3 Harmonic phase #55     | float         | RO  | 0       | 43583          |
| L3_H_PHASE_56     | Line Current L3 Harmonic phase #56     | float         | RO  | 0       | 43585          |
| L3_H_PHASE_57     | Line Current L3 Harmonic phase #57     | float         | RO  | 0       | 43587          |
| L3_H_PHASE_58     | Line Current L3 Harmonic phase #58     | float         | RO  | 0       | 43589          |
| L3_H_PHASE_59     | Line Current L3 Harmonic phase #59     | float         | RO  | 0       | 43591          |
| L3_H_PHASE_60     | Line Current L3 Harmonic phase #60     | float         | RO  | 0       | 43593          |
| L3_H_PHASE_61     | Line Current L3 Harmonic phase #61     | float         | RO  | 0       | 43595          |
| L3_H_PHASE_62     | Line Current L3 Harmonic phase #62     | float         | RO  | 0       | 43597          |
| L3_H_PHASE_63     | Line Current L3 Harmonic phase #63     | float         | RO  | 0       | 43599          |
| N_H_AMPLITUDE_0   | Line Current N Harmonic amplitude #0   | float         | RO  | 0       | 43601          |
| N_H_AMPLITUDE_1   | Line Current N Harmonic amplitude #1   | float         | RO  | 0       | 43603          |
| N_H_AMPLITUDE_2   | Line Current N Harmonic amplitude #2   | float         | RO  | 0       | 43605          |
| N_H_AMPLITUDE_3   | Line Current N Harmonic amplitude #3   | float         | RO  | 0       | 43607          |
| N_H_AMPLITUDE_4   | Line Current N Harmonic amplitude #4   | float         | RO  | 0       | 43609          |
| N_H_AMPLITUDE_5   | Line Current N Harmonic amplitude #5   | float         | RO  | 0       | 43611          |
| N_H_AMPLITUDE_6   | Line Current N Harmonic amplitude #6   | float         | RO  | 0       | 43613          |
| N_H_AMPLITUDE_7   | Line Current N Harmonic amplitude #7   | float         | RO  | 0       | 43615          |
| N_H_AMPLITUDE_8   | Line Current N Harmonic amplitude #8   | float         | RO  | 0       | 43617          |
| N_H_AMPLITUDE_9   | Line Current N Harmonic amplitude #9   | float         | RO  | 0       | 43619          |
| N_H_AMPLITUDE_10  | Line Current N Harmonic amplitude #10  | float         | RO  | 0       | 43621          |
| N_H_AMPLITUDE_11  | Line Current N Harmonic amplitude #11  | float         | RO  | 0       | 43623          |
| N_H_AMPLITUDE_12  | Line Current N Harmonic amplitude #12  | float         | RO  | 0       | 43625          |
| N_H_AMPLITUDE_13  | Line Current N Harmonic amplitude #13  | float         | RO  | 0       | 43627          |
| N_H_AMPLITUDE_14  | Line Current N Harmonic amplitude #14  | float         | RO  | 0       | 43629          |
| N_H_AMPLITUDE_15  | Line Current N Harmonic amplitude #15  | float         | RO  | 0       | 43631          |
| N_H_AMPLITUDE_16  | Line Current N Harmonic amplitude #16  | float         | RO  | 0       | 43633          |



R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

Only FULL version

| Register Name        | Description                                  | Register Type | R/W | Default | Modbus Address |
|----------------------|----------------------------------------------|---------------|-----|---------|----------------|
| N H AMPLITUDE 17     | Line Current N Harmonic amplitude #17        | float         | RO  | 0       | 43635          |
| N H AMPLITUDE 18     | Line Current N Harmonic amplitude #18        | float         | RO  | 0       | 43637          |
| N H AMPLITUDE 19     | Line Current N Harmonic amplitude #19        | float         | RO  | 0       | 43639          |
| N H AMPLITUDE 20     | Line Current N Harmonic amplitude #20        | float         | RO  | 0       | 43641          |
| N H AMPLITUDE 21     | Line Current N Harmonic amplitude #21        | float         | RO  | 0       | 43643          |
| N H AMPLITUDE 22     | Line Current N Harmonic amplitude #22        | float         | RO  | 0       | 43645          |
| N H AMPLITUDE 23     | Line Current N Harmonic amplitude #23        | float         | RO  | 0       | 43647          |
| N H AMPLITUDE 24     | Line Current N Harmonic amplitude #24        | float         | RO  | 0       | 43649          |
| N H AMPLITUDE 25     | Line Current N Harmonic amplitude #25        | float         | RO  | 0       | 43651          |
| N H AMPLITUDE 26     | Line Current N Harmonic amplitude #26        | float         | RO  | 0       | 43653          |
| N H AMPLITUDE 27     | Line Current N Harmonic amplitude #27        | float         | RO  | 0       | 43655          |
| N H AMPLITUDE 28     | Line Current N Harmonic amplitude #28        | float         | RO  | 0       | 43657          |
| N H AMPLITUDE 29     | Line Current N Harmonic amplitude #29        | float         | RO  | 0       | 43659          |
| N H AMPLITUDE 30     | Line Current N Harmonic amplitude #30        | float         | RO  | 0       | 43661          |
| N H AMPLITUDE 31     | Line Current N Harmonic amplitude #31        | float         | RO  | 0       | 43663          |
| N H AMPLITUDE 32     | Line Current N Harmonic amplitude #32        | float         | RO  | 0       | 43665          |
| N H AMPLITUDE 33     | Line Current N Harmonic amplitude #33        | float         | RO  | 0       | 43667          |
| N H AMPLITUDE 34     | Line Current N Harmonic amplitude #34        | float         | RO  | 0       | 43669          |
| N H AMPLITUDE 35     | Line Current N Harmonic amplitude #35        | float         | RO  | 0       | 43671          |
| N H AMPLITUDE 36     | Line Current N Harmonic amplitude #36        | float         | RO  | 0       | 43673          |
| N H AMPLITUDE 37     | Line Current N Harmonic amplitude #37        | float         | RO  | 0       | 43675          |
| N H AMPLITUDE 38     | Line Current N Harmonic amplitude #38        | float         | RO  | 0       | 43677          |
| N H AMPLITUDE 39     | Line Current N Harmonic amplitude #39        | float         | RO  | 0       | 43679          |
| N H AMPLITUDE 40     | Line Current N Harmonic amplitude #40        | float         | RO  | 0       | 43681          |
| N H AMPLITUDE 41     | Line Current N Harmonic amplitude #41        | float         | RO  | 0       | 43683          |
| N H AMPLITUDE 42     | Line Current N Harmonic amplitude #42        | float         | RO  | 0       | 43685          |
| N H AMPLITUDE 43     | Line Current N Harmonic amplitude #43        | float         | RO  | 0       | 43687          |
| N H AMPLITUDE 44     | Line Current N Harmonic amplitude #44        | float         | RO  | 0       | 43689          |
| N H AMPLITUDE 45     | Line Current N Harmonic amplitude #45        | float         | RO  | 0       | 43691          |
| N H AMPLITUDE 46     | Line Current N Harmonic amplitude #46        | float         | RO  | 0       | 43693          |
| N H AMPLITUDE 47     | Line Current N Harmonic amplitude #47        | float         | RO  | 0       | 43695          |
| N H AMPLITUDE 48     | Line Current N Harmonic amplitude #48        | float         | RO  | 0       | 43697          |
| N H AMPLITUDE 49     | Line Current N Harmonic amplitude #49        | float         | RO  | 0       | 43699          |
| N H AMPLITUDE 50     | Line Current N Harmonic amplitude #50        | float         | RO  | 0       | 43701          |
| N H AMPLITUDE 51     | Line Current N Harmonic amplitude #51        | float         | RO  | 0       | 43703          |
| N H AMPLITUDE 52     | Line Current N Harmonic amplitude #52        | float         | RO  | 0       | 43705          |
| N H AMPLITUDE 53     | Line Current N Harmonic amplitude #53        | float         | RO  | 0       | 43707          |
| N H AMPLITUDE 54     | Line Current N Harmonic amplitude #54        | float         | RO  | 0       | 43709          |
| N H AMPLITUDE 55     | Line Current N Harmonic amplitude #55        | float         | RO  | 0       | 43711          |
| N H AMPLITUDE 56     | Line Current N Harmonic amplitude #56        | float         | RO  | 0       | 43713          |
| N H AMPLITUDE 57     | Line Current N Harmonic amplitude #57        | float         | RO  | 0       | 43715          |
| N H AMPLITUDE 58     | Line Current N Harmonic amplitude #58        | float         | RO  | 0       | 43717          |
| N H AMPLITUDE 59     | Line Current N Harmonic amplitude #59        | float         | RO  | 0       | 43719          |
| N H AMPLITUDE 60     | Line Current N Harmonic amplitude #60        | float         | RO  | 0       | 43721          |
| N H AMPLITUDE 61     | Line Current N Harmonic amplitude #61        | float         | RO  | 0       | 43723          |
| N H AMPLITUDE 62     | Line Current N Harmonic amplitude #62        | float         | RO  | 0       | 43725          |
| N H AMPLITUDE 63     | Line Current N Harmonic amplitude #63        | float         | RO  | 0       | 43727          |
| N H PHASE 0          | Line Current N Harmonic phase #0             | float         | RO  | 0       | 43729          |
| N H PHASE 1          | Line Current N Harmonic phase #1             | float         | RO  | 0       | 43731          |
| N H PHASE 2          | Line Current N Harmonic phase #2             | float         | RO  | 0       | 43733          |
| N H PHASE 3          | Line Current N Harmonic phase #3             | float         | RO  | 0       | 43735          |
| N H PHASE 4          | Line Current N Harmonic phase #4             | float         | RO  | 0       | 43737          |
| N H PHASE 5          | Line Current N Harmonic phase #5             | float         | RO  | 0       | 43739          |
| N H PHASE 6          | Line Current N Harmonic phase #6             | float         | RO  | 0       | 43741          |
| N H PHASE 7          | Line Current N Harmonic phase #7             | float         | RO  | 0       | 43743          |
| N H PHASE 8          | Line Current N Harmonic phase #8             | float         | RO  | 0       | 43745          |
| N H PHASE 9          | Line Current N Harmonic phase #9             | float         | RO  | 0       | 43747          |
| N H PHASE 10         | Line Current N Harmonic phase #10            | float         | RO  | 0       | 43749          |
| N H PHASE 11         | Line Current N Harmonic phase #11            | float         | RO  | 0       | 43751          |
| N H PHASE 12         | Line Current N Harmonic phase #12            | float         | RO  | 0       | 43753          |
| N H PHASE 13         | Line Current N Harmonic phase #13            | float         | RO  | 0       | 43755          |
| N H PHASE 14         | Line Current N Harmonic phase #14            | float         | RO  | 0       | 43757          |
| N H PHASE 15         | Line Current N Harmonic phase #15            | float         | RO  | 0       | 43759          |
| N H PHASE 16         | Line Current N Harmonic phase #16            | float         | RO  | 0       | 43761          |
| N H PHASE 17         | Line Current N Harmonic phase #17            | float         | RO  | 0       | 43763          |
| N H PHASE 18         | Line Current N Harmonic phase #18            | float         | RO  | 0       | 43765          |
| N H PHASE 19         | Line Current N Harmonic phase #19            | float         | RO  | 0       | 43767          |
| N H PHASE 20         | Line Current N Harmonic phase #20            | float         | RO  | 0       | 43769          |
| N H PHASE 21         | Line Current N Harmonic phase #21            | float         | RO  | 0       | 43771          |
| N H PHASE 22         | Line Current N Harmonic phase #22            | float         | RO  | 0       | 43773          |
| N H PHASE 23         | Line Current N Harmonic phase #23            | float         | RO  | 0       | 43775          |
| N H PHASE 24         | Line Current N Harmonic phase #24            | float         | RO  | 0       | 43777          |
| N H PHASE 25         | Line Current N Harmonic phase #25            | float         | RO  | 0       | 43779          |
| N H PHASE 26         | Line Current N Harmonic phase #26            | float         | RO  | 0       | 43781          |
| N H PHASE 27         | Line Current N Harmonic phase #27            | float         | RO  | 0       | 43783          |
| N H PHASE 28         | Line Current N Harmonic phase #28            | float         | RO  | 0       | 43785          |
| N H PHASE 29         | Line Current N Harmonic phase #29            | float         | RO  | 0       | 43787          |
| N H PHASE 30         | Line Current N Harmonic phase #30            | float         | RO  | 0       | 43789          |
| N H PHASE 31         | Line Current N Harmonic phase #31            | float         | RO  | 0       | 43791          |
| N H PHASE 32         | Line Current N Harmonic phase #32            | float         | RO  | 0       | 43793          |
| N H PHASE 33         | Line Current N Harmonic phase #33            | float         | RO  | 0       | 43795          |
| N H PHASE 34         | Line Current N Harmonic phase #34            | float         | RO  | 0       | 43797          |
| N H PHASE 35         | Line Current N Harmonic phase #35            | float         | RO  | 0       | 43799          |
| N H PHASE 36         | Line Current N Harmonic phase #36            | float         | RO  | 0       | 43801          |
| N H PHASE 37         | Line Current N Harmonic phase #37            | float         | RO  | 0       | 43803          |
| N H PHASE 38         | Line Current N Harmonic phase #38            | float         | RO  | 0       | 43805          |
| N H PHASE 39         | Line Current N Harmonic phase #39            | float         | RO  | 0       | 43807          |
| N H PHASE 40         | Line Current N Harmonic phase #40            | float         | RO  | 0       | 43809          |
| N H PHASE 41         | Line Current N Harmonic phase #41            | float         | RO  | 0       | 43811          |
| N H PHASE 42         | Line Current N Harmonic phase #42            | float         | RO  | 0       | 43813          |
| N H PHASE 43         | Line Current N Harmonic phase #43            | float         | RO  | 0       | 43815          |
| N H PHASE 44         | Line Current N Harmonic phase #44            | float         | RO  | 0       | 43817          |
| N H PHASE 45         | Line Current N Harmonic phase #45            | float         | RO  | 0       | 43819          |
| N H PHASE 46         | Line Current N Harmonic phase #46            | float         | RO  | 0       | 43821          |
| N H PHASE 47         | Line Current N Harmonic phase #47            | float         | RO  | 0       | 43823          |
| N H PHASE 48         | Line Current N Harmonic phase #48            | float         | RO  | 0       | 43825          |
| N H PHASE 49         | Line Current N Harmonic phase #49            | float         | RO  | 0       | 43827          |
| N H PHASE 50         | Line Current N Harmonic phase #50            | float         | RO  | 0       | 43829          |
| N H PHASE 51         | Line Current N Harmonic phase #51            | float         | RO  | 0       | 43831          |
| N H PHASE 52         | Line Current N Harmonic phase #52            | float         | RO  | 0       | 43833          |
| N H PHASE 53         | Line Current N Harmonic phase #53            | float         | RO  | 0       | 43835          |
| N H PHASE 54         | Line Current N Harmonic phase #54            | float         | RO  | 0       | 43837          |
| N H PHASE 55         | Line Current N Harmonic phase #55            | float         | RO  | 0       | 43839          |
| N H PHASE 56         | Line Current N Harmonic phase #56            | float         | RO  | 0       | 43841          |
| N H PHASE 57         | Line Current N Harmonic phase #57            | float         | RO  | 0       | 43843          |
| N H PHASE 58         | Line Current N Harmonic phase #58            | float         | RO  | 0       | 43845          |
| N H PHASE 59         | Line Current N Harmonic phase #59            | float         | RO  | 0       | 43847          |
| N H PHASE 60         | Line Current N Harmonic phase #60            | float         | RO  | 0       | 43849          |
| N H PHASE 61         | Line Current N Harmonic phase #61            | float         | RO  | 0       | 43851          |
| N H PHASE 62         | Line Current N Harmonic phase #62            | float         | RO  | 0       | 43853          |
| N H PHASE 63         | Line Current N Harmonic phase #63            | float         | RO  | 0       | 43855          |
| V L1N IH AMPLITUDE 0 | Star Voltage L1-N InterHarmonic amplitude #0 | float         | RO  | 0       | 43857          |
| V L1N IH AMPLITUDE 1 | Star Voltage L1-N InterHarmonic amplitude #1 | float         | RO  | 0       | 43859          |
| V L1N IH AMPLITUDE 2 | Star Voltage L1-N InterHarmonic amplitude #2 | float         | RO  | 0       | 43861          |
| V L1N IH AMPLITUDE 3 | Star Voltage L1-N InterHarmonic amplitude #3 | float         | RO  | 0       | 43863          |
| V L1N IH AMPLITUDE 4 | Star Voltage L1-N InterHarmonic amplitude #4 | float         | RO  | 0       | 43865          |
| V L1N IH AMPLITUDE 5 | Star Voltage L1-N InterHarmonic amplitude #5 | float         | RO  | 0       | 43867          |
| V L1N IH AMPLITUDE 6 | Star Voltage L1-N InterHarmonic amplitude #6 | float         | RO  | 0       | 43869          |
| V L1N IH AMPLITUDE 7 | Star Voltage L1-N InterHarmonic amplitude #7 | float         | RO  | 0       | 43871          |
| V L1N IH AMPLITUDE 8 | Star Voltage L1-N InterHarmonic amplitude #8 | float         | RO  | 0       | 43873          |
| V L1N IH AMPLITUDE 9 | Star Voltage L1-N InterHarmonic amplitude #9 | float         | RO  | 0       | 43875          |

Only FULL version

- R/W legend:
- RO: Read only
  - WO: Write only
  - R/W: Read and write

[illegible]

[illegible]



Only FULL version

- R/W legend:
- RO: Read only
  - WO: Write only
  - R/W: Read and write

[illegible]



[illegible]

R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

Only FULL version

|                       | Register Name | Description                                    | Register Type | R/W | Default | Modbus Address |
|-----------------------|---------------|------------------------------------------------|---------------|-----|---------|----------------|
| V_L12 IH PHASE 46     |               | Line Voltage L1-L2 InterHarmonic phase #46     | float         | RO  | 0       | 44846          |
| V_L12 IH PHASE 47     |               | Line Voltage L1-L2 InterHarmonic phase #47     | float         | RO  | 0       | 44847          |
| V_L12 IH PHASE 48     |               | Line Voltage L1-L2 InterHarmonic phase #48     | float         | RO  | 0       | 44849          |
| V_L12 IH PHASE 49     |               | Line Voltage L1-L2 InterHarmonic phase #49     | float         | RO  | 0       | 44851          |
| V_L12 IH PHASE 50     |               | Line Voltage L1-L2 InterHarmonic phase #50     | float         | RO  | 0       | 44853          |
| V_L12 IH PHASE 51     |               | Line Voltage L1-L2 InterHarmonic phase #51     | float         | RO  | 0       | 44855          |
| V_L12 IH PHASE 52     |               | Line Voltage L1-L2 InterHarmonic phase #52     | float         | RO  | 0       | 44857          |
| V_L12 IH PHASE 53     |               | Line Voltage L1-L2 InterHarmonic phase #53     | float         | RO  | 0       | 44859          |
| V_L12 IH PHASE 54     |               | Line Voltage L1-L2 InterHarmonic phase #54     | float         | RO  | 0       | 44861          |
| V_L12 IH PHASE 55     |               | Line Voltage L1-L2 InterHarmonic phase #55     | float         | RO  | 0       | 44863          |
| V_L12 IH PHASE 56     |               | Line Voltage L1-L2 InterHarmonic phase #56     | float         | RO  | 0       | 44865          |
| V_L12 IH PHASE 57     |               | Line Voltage L1-L2 InterHarmonic phase #57     | float         | RO  | 0       | 44867          |
| V_L12 IH PHASE 58     |               | Line Voltage L1-L2 InterHarmonic phase #58     | float         | RO  | 0       | 44869          |
| V_L12 IH PHASE 59     |               | Line Voltage L1-L2 InterHarmonic phase #59     | float         | RO  | 0       | 44871          |
| V_L12 IH PHASE 60     |               | Line Voltage L1-L2 InterHarmonic phase #60     | float         | RO  | 0       | 44873          |
| V_L12 IH PHASE 61     |               | Line Voltage L1-L2 InterHarmonic phase #61     | float         | RO  | 0       | 44875          |
| V_L12 IH PHASE 62     |               | Line Voltage L1-L2 InterHarmonic phase #62     | float         | RO  | 0       | 44877          |
| V_L12 IH PHASE 63     |               | Line Voltage L1-L2 InterHarmonic phase #63     | float         | RO  | 0       | 44879          |
| V_L23 IH AMPLITUDE 0  |               | Line Voltage L2-L3 InterHarmonic amplitude #0  | float         | RO  | 0       | 44881          |
| V_L23 IH AMPLITUDE 1  |               | Line Voltage L2-L3 InterHarmonic amplitude #1  | float         | RO  | 0       | 44883          |
| V_L23 IH AMPLITUDE 2  |               | Line Voltage L2-L3 InterHarmonic amplitude #2  | float         | RO  | 0       | 44885          |
| V_L23 IH AMPLITUDE 3  |               | Line Voltage L2-L3 InterHarmonic amplitude #3  | float         | RO  | 0       | 44887          |
| V_L23 IH AMPLITUDE 4  |               | Line Voltage L2-L3 InterHarmonic amplitude #4  | float         | RO  | 0       | 44889          |
| V_L23 IH AMPLITUDE 5  |               | Line Voltage L2-L3 InterHarmonic amplitude #5  | float         | RO  | 0       | 44891          |
| V_L23 IH AMPLITUDE 6  |               | Line Voltage L2-L3 InterHarmonic amplitude #6  | float         | RO  | 0       | 44893          |
| V_L23 IH AMPLITUDE 7  |               | Line Voltage L2-L3 InterHarmonic amplitude #7  | float         | RO  | 0       | 44895          |
| V_L23 IH AMPLITUDE 8  |               | Line Voltage L2-L3 InterHarmonic amplitude #8  | float         | RO  | 0       | 44897          |
| V_L23 IH AMPLITUDE 9  |               | Line Voltage L2-L3 InterHarmonic amplitude #9  | float         | RO  | 0       | 44899          |
| V_L23 IH AMPLITUDE 10 |               | Line Voltage L2-L3 InterHarmonic amplitude #10 | float         | RO  | 0       | 44901          |
| V_L23 IH AMPLITUDE 11 |               | Line Voltage L2-L3 InterHarmonic amplitude #11 | float         | RO  | 0       | 44903          |
| V_L23 IH AMPLITUDE 12 |               | Line Voltage L2-L3 InterHarmonic amplitude #12 | float         | RO  | 0       | 44905          |
| V_L23 IH AMPLITUDE 13 |               | Line Voltage L2-L3 InterHarmonic amplitude #13 | float         | RO  | 0       | 44907          |
| V_L23 IH AMPLITUDE 14 |               | Line Voltage L2-L3 InterHarmonic amplitude #14 | float         | RO  | 0       | 44909          |
| V_L23 IH AMPLITUDE 15 |               | Line Voltage L2-L3 InterHarmonic amplitude #15 | float         | RO  | 0       | 44911          |
| V_L23 IH AMPLITUDE 16 |               | Line Voltage L2-L3 InterHarmonic amplitude #16 | float         | RO  | 0       | 44913          |
| V_L23 IH AMPLITUDE 17 |               | Line Voltage L2-L3 InterHarmonic amplitude #17 | float         | RO  | 0       | 44915          |
| V_L23 IH AMPLITUDE 18 |               | Line Voltage L2-L3 InterHarmonic amplitude #18 | float         | RO  | 0       | 44917          |
| V_L23 IH AMPLITUDE 19 |               | Line Voltage L2-L3 InterHarmonic amplitude #19 | float         | RO  | 0       | 44919          |
| V_L23 IH AMPLITUDE 20 |               | Line Voltage L2-L3 InterHarmonic amplitude #20 | float         | RO  | 0       | 44921          |
| V_L23 IH AMPLITUDE 21 |               | Line Voltage L2-L3 InterHarmonic amplitude #21 | float         | RO  | 0       | 44923          |
| V_L23 IH AMPLITUDE 22 |               | Line Voltage L2-L3 InterHarmonic amplitude #22 | float         | RO  | 0       | 44925          |
| V_L23 IH AMPLITUDE 23 |               | Line Voltage L2-L3 InterHarmonic amplitude #23 | float         | RO  | 0       | 44927          |
| V_L23 IH AMPLITUDE 24 |               | Line Voltage L2-L3 InterHarmonic amplitude #24 | float         | RO  | 0       | 44929          |
| V_L23 IH AMPLITUDE 25 |               | Line Voltage L2-L3 InterHarmonic amplitude #25 | float         | RO  | 0       | 44931          |
| V_L23 IH AMPLITUDE 26 |               | Line Voltage L2-L3 InterHarmonic amplitude #26 | float         | RO  | 0       | 44933          |
| V_L23 IH AMPLITUDE 27 |               | Line Voltage L2-L3 InterHarmonic amplitude #27 | float         | RO  | 0       | 44935          |
| V_L23 IH AMPLITUDE 28 |               | Line Voltage L2-L3 InterHarmonic amplitude #28 | float         | RO  | 0       | 44937          |
| V_L23 IH AMPLITUDE 29 |               | Line Voltage L2-L3 InterHarmonic amplitude #29 | float         | RO  | 0       | 44939          |
| V_L23 IH AMPLITUDE 30 |               | Line Voltage L2-L3 InterHarmonic amplitude #30 | float         | RO  | 0       | 44941          |
| V_L23 IH AMPLITUDE 31 |               | Line Voltage L2-L3 InterHarmonic amplitude #31 | float         | RO  | 0       | 44943          |
| V_L23 IH AMPLITUDE 32 |               | Line Voltage L2-L3 InterHarmonic amplitude #32 | float         | RO  | 0       | 44945          |
| V_L23 IH AMPLITUDE 33 |               | Line Voltage L2-L3 InterHarmonic amplitude #33 | float         | RO  | 0       | 44947          |
| V_L23 IH AMPLITUDE 34 |               | Line Voltage L2-L3 InterHarmonic amplitude #34 | float         | RO  | 0       | 44949          |
| V_L23 IH AMPLITUDE 35 |               | Line Voltage L2-L3 InterHarmonic amplitude #35 | float         | RO  | 0       | 44951          |
| V_L23 IH AMPLITUDE 36 |               | Line Voltage L2-L3 InterHarmonic amplitude #36 | float         | RO  | 0       | 44953          |
| V_L23 IH AMPLITUDE 37 |               | Line Voltage L2-L3 InterHarmonic amplitude #37 | float         | RO  | 0       | 44955          |
| V_L23 IH AMPLITUDE 38 |               | Line Voltage L2-L3 InterHarmonic amplitude #38 | float         | RO  | 0       | 44957          |
| V_L23 IH AMPLITUDE 39 |               | Line Voltage L2-L3 InterHarmonic amplitude #39 | float         | RO  | 0       | 44959          |
| V_L23 IH AMPLITUDE 40 |               | Line Voltage L2-L3 InterHarmonic amplitude #40 | float         | RO  | 0       | 44961          |
| V_L23 IH AMPLITUDE 41 |               | Line Voltage L2-L3 InterHarmonic amplitude #41 | float         | RO  | 0       | 44963          |
| V_L23 IH AMPLITUDE 42 |               | Line Voltage L2-L3 InterHarmonic amplitude #42 | float         | RO  | 0       | 44965          |
| V_L23 IH AMPLITUDE 43 |               | Line Voltage L2-L3 InterHarmonic amplitude #43 | float         | RO  | 0       | 44967          |
| V_L23 IH AMPLITUDE 44 |               | Line Voltage L2-L3 InterHarmonic amplitude #44 | float         | RO  | 0       | 44969          |
| V_L23 IH AMPLITUDE 45 |               | Line Voltage L2-L3 InterHarmonic amplitude #45 | float         | RO  | 0       | 44971          |
| V_L23 IH AMPLITUDE 46 |               | Line Voltage L2-L3 InterHarmonic amplitude #46 | float         | RO  | 0       | 44973          |
| V_L23 IH AMPLITUDE 47 |               | Line Voltage L2-L3 InterHarmonic amplitude #47 | float         | RO  | 0       | 44975          |
| V_L23 IH AMPLITUDE 48 |               | Line Voltage L2-L3 InterHarmonic amplitude #48 | float         | RO  | 0       | 44977          |
| V_L23 IH AMPLITUDE 49 |               | Line Voltage L2-L3 InterHarmonic amplitude #49 | float         | RO  | 0       | 44979          |
| V_L23 IH AMPLITUDE 50 |               | Line Voltage L2-L3 InterHarmonic amplitude #50 | float         | RO  | 0       | 44981          |
| V_L23 IH AMPLITUDE 51 |               | Line Voltage L2-L3 InterHarmonic amplitude #51 | float         | RO  | 0       | 44983          |
| V_L23 IH AMPLITUDE 52 |               | Line Voltage L2-L3 InterHarmonic amplitude #52 | float         | RO  | 0       | 44985          |
| V_L23 IH AMPLITUDE 53 |               | Line Voltage L2-L3 InterHarmonic amplitude #53 | float         | RO  | 0       | 44987          |
| V_L23 IH AMPLITUDE 54 |               | Line Voltage L2-L3 InterHarmonic amplitude #54 | float         | RO  | 0       | 44989          |
| V_L23 IH AMPLITUDE 55 |               | Line Voltage L2-L3 InterHarmonic amplitude #55 | float         | RO  | 0       | 44991          |
| V_L23 IH AMPLITUDE 56 |               | Line Voltage L2-L3 InterHarmonic amplitude #56 | float         | RO  | 0       | 44993          |
| V_L23 IH AMPLITUDE 57 |               | Line Voltage L2-L3 InterHarmonic amplitude #57 | float         | RO  | 0       | 44995          |
| V_L23 IH AMPLITUDE 58 |               | Line Voltage L2-L3 InterHarmonic amplitude #58 | float         | RO  | 0       | 44997          |
| V_L23 IH AMPLITUDE 59 |               | Line Voltage L2-L3 InterHarmonic amplitude #59 | float         | RO  | 0       | 44999          |
| V_L23 IH AMPLITUDE 60 |               | Line Voltage L2-L3 InterHarmonic amplitude #60 | float         | RO  | 0       | 45001          |
| V_L23 IH AMPLITUDE 61 |               | Line Voltage L2-L3 InterHarmonic amplitude #61 | float         | RO  | 0       | 45003          |
| V_L23 IH AMPLITUDE 62 |               | Line Voltage L2-L3 InterHarmonic amplitude #62 | float         | RO  | 0       | 45005          |
| V_L23 IH AMPLITUDE 63 |               | Line Voltage L2-L3 InterHarmonic amplitude #63 | float         | RO  | 0       | 45007          |
| V_L23 IH PHASE 0      |               | Line Voltage L2-L3 InterHarmonic phase #0      | float         | RO  | 0       | 45009          |
| V_L23 IH PHASE 1      |               | Line Voltage L2-L3 InterHarmonic phase #1      | float         | RO  | 0       | 45011          |
| V_L23 IH PHASE 2      |               | Line Voltage L2-L3 InterHarmonic phase #2      | float         | RO  | 0       | 45013          |
| V_L23 IH PHASE 3      |               | Line Voltage L2-L3 InterHarmonic phase #3      | float         | RO  | 0       | 45015          |
| V_L23 IH PHASE 4      |               | Line Voltage L2-L3 InterHarmonic phase #4      | float         | RO  | 0       | 45017          |
| V_L23 IH PHASE 5      |               | Line Voltage L2-L3 InterHarmonic phase #5      | float         | RO  | 0       | 45019          |
| V_L23 IH PHASE 6      |               | Line Voltage L2-L3 InterHarmonic phase #6      | float         | RO  | 0       | 45021          |
| V_L23 IH PHASE 7      |               | Line Voltage L2-L3 InterHarmonic phase #7      | float         | RO  | 0       | 45023          |
| V_L23 IH PHASE 8      |               | Line Voltage L2-L3 InterHarmonic phase #8      | float         | RO  | 0       | 45025          |
| V_L23 IH PHASE 9      |               | Line Voltage L2-L3 InterHarmonic phase #9      | float         | RO  | 0       | 45027          |
| V_L23 IH PHASE 10     |               | Line Voltage L2-L3 InterHarmonic phase #10     | float         | RO  | 0       | 45029          |
| V_L23 IH PHASE 11     |               | Line Voltage L2-L3 InterHarmonic phase #11     | float         | RO  | 0       | 45031          |
| V_L23 IH PHASE 12     |               | Line Voltage L2-L3 InterHarmonic phase #12     | float         | RO  | 0       | 45033          |
| V_L23 IH PHASE 13     |               | Line Voltage L2-L3 InterHarmonic phase #13     | float         | RO  | 0       | 45035          |
| V_L23 IH PHASE 14     |               | Line Voltage L2-L3 InterHarmonic phase #14     | float         | RO  | 0       | 45037          |
| V_L23 IH PHASE 15     |               | Line Voltage L2-L3 InterHarmonic phase #15     | float         | RO  | 0       | 45039          |
| V_L23 IH PHASE 16     |               | Line Voltage L2-L3 InterHarmonic phase #16     | float         | RO  | 0       | 45041          |
| V_L23 IH PHASE 17     |               | Line Voltage L2-L3 InterHarmonic phase #17     | float         | RO  | 0       | 45043          |
| V_L23 IH PHASE 18     |               | Line Voltage L2-L3 InterHarmonic phase #18     | float         | RO  | 0       | 45045          |
| V_L23 IH PHASE 19     |               | Line Voltage L2-L3 InterHarmonic phase #19     | float         | RO  | 0       | 45047          |
| V_L23 IH PHASE 20     |               | Line Voltage L2-L3 InterHarmonic phase #20     | float         | RO  | 0       | 45049          |
| V_L23 IH PHASE 21     |               | Line Voltage L2-L3 InterHarmonic phase #21     | float         | RO  | 0       | 45051          |
| V_L23 IH PHASE 22     |               | Line Voltage L2-L3 InterHarmonic phase #22     | float         | RO  | 0       | 45053          |
| V_L23 IH PHASE 23     |               | Line Voltage L2-L3 InterHarmonic phase #23     | float         | RO  | 0       | 45055          |
| V_L23 IH PHASE 24     |               | Line Voltage L2-L3 InterHarmonic phase #24     | float         | RO  | 0       | 45057          |
| V_L23 IH PHASE 25     |               | Line Voltage L2-L3 InterHarmonic phase #25     | float         | RO  | 0       | 45059          |
| V_L23 IH PHASE 26     |               | Line Voltage L2-L3 InterHarmonic phase #26     | float         | RO  | 0       | 45061          |
| V_L23 IH PHASE 27     |               | Line Voltage L2-L3 InterHarmonic phase #27     | float         | RO  | 0       | 45063          |
| V_L23 IH PHASE 28     |               | Line Voltage L2-L3 InterHarmonic phase #28     | float         | RO  | 0       | 45065          |
| V_L23 IH PHASE 29     |               | Line Voltage L2-L3 InterHarmonic phase #29     | float         | RO  | 0       | 45067          |
| V_L23 IH PHASE 30     |               | Line Voltage L2-L3 InterHarmonic phase #30     | float         | RO  | 0       | 45069          |
| V_L23 IH PHASE 31     |               | Line Voltage L2-L3 InterHarmonic phase #31     | float         | RO  | 0       | 45071          |
| V_L23 IH PHASE 32     |               | Line Voltage L2-L3 InterHarmonic phase #32     | float         | RO  | 0       | 45073          |
| V_L23 IH PHASE 33     |               | Line Voltage L2-L3 InterHarmonic phase #33     | float         | RO  | 0       | 45075          |
| V_L23 IH PHASE 34     |               | Line Voltage L2-L3 InterHarmonic phase #34     | float         | RO  | 0       | 45077          |
| V_L23 IH PHASE 35     |               | Line Voltage L2-L3 InterHarmonic phase #35     | float         | RO  | 0       | 45079          |
| V_L23 IH PHASE 36     |               | Line Voltage L2-L3 InterHarmonic phase #36     | float         | RO  | 0       | 45081          |
| V_L23 IH PHASE 37     |               | Line Voltage L2-L3 InterHarmonic phase #37     | float         | RO  | 0       | 45083          |
| V_L23 IH PHASE 38     |               | Line Voltage L2-L3 InterHarmonic phase #38     | float         | RO  | 0       | 45085          |

[illegible]



Only FULL version

- R/W legend:
- RO: Read only
  - WO: Write only
  - R/W: Read and write

[illegible]



| Register Name      |  | Description                                 | Register Type | R/W | Default | Modbus Address |
|--------------------|--|---------------------------------------------|---------------|-----|---------|----------------|
| L1 IH PHASE 25     |  | Line Current L1 InterHarmonic phase #25     | float         | RO  | 0       | 45571          |
| L1 IH PHASE 26     |  | Line Current L1 InterHarmonic phase #26     | float         | RO  | 0       | 45573          |
| L1 IH PHASE 27     |  | Line Current L1 InterHarmonic phase #27     | float         | RO  | 0       | 45575          |
| L1 IH PHASE 28     |  | Line Current L1 InterHarmonic phase #28     | float         | RO  | 0       | 45577          |
| L1 IH PHASE 29     |  | Line Current L1 InterHarmonic phase #29     | float         | RO  | 0       | 45579          |
| L1 IH PHASE 30     |  | Line Current L1 InterHarmonic phase #30     | float         | RO  | 0       | 45581          |
| L1 IH PHASE 31     |  | Line Current L1 InterHarmonic phase #31     | float         | RO  | 0       | 45583          |
| L1 IH PHASE 32     |  | Line Current L1 InterHarmonic phase #32     | float         | RO  | 0       | 45585          |
| L1 IH PHASE 33     |  | Line Current L1 InterHarmonic phase #33     | float         | RO  | 0       | 45587          |
| L1 IH PHASE 34     |  | Line Current L1 InterHarmonic phase #34     | float         | RO  | 0       | 45589          |
| L1 IH PHASE 35     |  | Line Current L1 InterHarmonic phase #35     | float         | RO  | 0       | 45591          |
| L1 IH PHASE 36     |  | Line Current L1 InterHarmonic phase #36     | float         | RO  | 0       | 45593          |
| L1 IH PHASE 37     |  | Line Current L1 InterHarmonic phase #37     | float         | RO  | 0       | 45595          |
| L1 IH PHASE 38     |  | Line Current L1 InterHarmonic phase #38     | float         | RO  | 0       | 45597          |
| L1 IH PHASE 39     |  | Line Current L1 InterHarmonic phase #39     | float         | RO  | 0       | 45599          |
| L1 IH PHASE 40     |  | Line Current L1 InterHarmonic phase #40     | float         | RO  | 0       | 45601          |
| L1 IH PHASE 41     |  | Line Current L1 InterHarmonic phase #41     | float         | RO  | 0       | 45603          |
| L1 IH PHASE 42     |  | Line Current L1 InterHarmonic phase #42     | float         | RO  | 0       | 45605          |
| L1 IH PHASE 43     |  | Line Current L1 InterHarmonic phase #43     | float         | RO  | 0       | 45607          |
| L1 IH PHASE 44     |  | Line Current L1 InterHarmonic phase #44     | float         | RO  | 0       | 45609          |
| L1 IH PHASE 45     |  | Line Current L1 InterHarmonic phase #45     | float         | RO  | 0       | 45611          |
| L1 IH PHASE 46     |  | Line Current L1 InterHarmonic phase #46     | float         | RO  | 0       | 45613          |
| L1 IH PHASE 47     |  | Line Current L1 InterHarmonic phase #47     | float         | RO  | 0       | 45615          |
| L1 IH PHASE 48     |  | Line Current L1 InterHarmonic phase #48     | float         | RO  | 0       | 45617          |
| L1 IH PHASE 49     |  | Line Current L1 InterHarmonic phase #49     | float         | RO  | 0       | 45619          |
| L1 IH PHASE 50     |  | Line Current L1 InterHarmonic phase #50     | float         | RO  | 0       | 45621          |
| L1 IH PHASE 51     |  | Line Current L1 InterHarmonic phase #51     | float         | RO  | 0       | 45623          |
| L1 IH PHASE 52     |  | Line Current L1 InterHarmonic phase #52     | float         | RO  | 0       | 45625          |
| L1 IH PHASE 53     |  | Line Current L1 InterHarmonic phase #53     | float         | RO  | 0       | 45627          |
| L1 IH PHASE 54     |  | Line Current L1 InterHarmonic phase #54     | float         | RO  | 0       | 45629          |
| L1 IH PHASE 55     |  | Line Current L1 InterHarmonic phase #55     | float         | RO  | 0       | 45631          |
| L1 IH PHASE 56     |  | Line Current L1 InterHarmonic phase #56     | float         | RO  | 0       | 45633          |
| L1 IH PHASE 57     |  | Line Current L1 InterHarmonic phase #57     | float         | RO  | 0       | 45635          |
| L1 IH PHASE 58     |  | Line Current L1 InterHarmonic phase #58     | float         | RO  | 0       | 45637          |
| L1 IH PHASE 59     |  | Line Current L1 InterHarmonic phase #59     | float         | RO  | 0       | 45639          |
| L1 IH PHASE 60     |  | Line Current L1 InterHarmonic phase #60     | float         | RO  | 0       | 45641          |
| L1 IH PHASE 61     |  | Line Current L1 InterHarmonic phase #61     | float         | RO  | 0       | 45643          |
| L1 IH PHASE 62     |  | Line Current L1 InterHarmonic phase #62     | float         | RO  | 0       | 45645          |
| L1 IH PHASE 63     |  | Line Current L1 InterHarmonic phase #63     | float         | RO  | 0       | 45647          |
| L2 IH AMPLITUDE 0  |  | Line Current L2 InterHarmonic amplitude #0  | float         | RO  | 0       | 45649          |
| L2 IH AMPLITUDE 1  |  | Line Current L2 InterHarmonic amplitude #1  | float         | RO  | 0       | 45651          |
| L2 IH AMPLITUDE 2  |  | Line Current L2 InterHarmonic amplitude #2  | float         | RO  | 0       | 45653          |
| L2 IH AMPLITUDE 3  |  | Line Current L2 InterHarmonic amplitude #3  | float         | RO  | 0       | 45655          |
| L2 IH AMPLITUDE 4  |  | Line Current L2 InterHarmonic amplitude #4  | float         | RO  | 0       | 45657          |
| L2 IH AMPLITUDE 5  |  | Line Current L2 InterHarmonic amplitude #5  | float         | RO  | 0       | 45659          |
| L2 IH AMPLITUDE 6  |  | Line Current L2 InterHarmonic amplitude #6  | float         | RO  | 0       | 45661          |
| L2 IH AMPLITUDE 7  |  | Line Current L2 InterHarmonic amplitude #7  | float         | RO  | 0       | 45663          |
| L2 IH AMPLITUDE 8  |  | Line Current L2 InterHarmonic amplitude #8  | float         | RO  | 0       | 45665          |
| L2 IH AMPLITUDE 9  |  | Line Current L2 InterHarmonic amplitude #9  | float         | RO  | 0       | 45667          |
| L2 IH AMPLITUDE 10 |  | Line Current L2 InterHarmonic amplitude #10 | float         | RO  | 0       | 45669          |
| L2 IH AMPLITUDE 11 |  | Line Current L2 InterHarmonic amplitude #11 | float         | RO  | 0       | 45671          |
| L2 IH AMPLITUDE 12 |  | Line Current L2 InterHarmonic amplitude #12 | float         | RO  | 0       | 45673          |
| L2 IH AMPLITUDE 13 |  | Line Current L2 InterHarmonic amplitude #13 | float         | RO  | 0       | 45675          |
| L2 IH AMPLITUDE 14 |  | Line Current L2 InterHarmonic amplitude #14 | float         | RO  | 0       | 45677          |
| L2 IH AMPLITUDE 15 |  | Line Current L2 InterHarmonic amplitude #15 | float         | RO  | 0       | 45679          |
| L2 IH AMPLITUDE 16 |  | Line Current L2 InterHarmonic amplitude #16 | float         | RO  | 0       | 45681          |
| L2 IH AMPLITUDE 17 |  | Line Current L2 InterHarmonic amplitude #17 | float         | RO  | 0       | 45683          |
| L2 IH AMPLITUDE 18 |  | Line Current L2 InterHarmonic amplitude #18 | float         | RO  | 0       | 45685          |
| L2 IH AMPLITUDE 19 |  | Line Current L2 InterHarmonic amplitude #19 | float         | RO  | 0       | 45687          |
| L2 IH AMPLITUDE 20 |  | Line Current L2 InterHarmonic amplitude #20 | float         | RO  | 0       | 45689          |
| L2 IH AMPLITUDE 21 |  | Line Current L2 InterHarmonic amplitude #21 | float         | RO  | 0       | 45691          |
| L2 IH AMPLITUDE 22 |  | Line Current L2 InterHarmonic amplitude #22 | float         | RO  | 0       | 45693          |
| L2 IH AMPLITUDE 23 |  | Line Current L2 InterHarmonic amplitude #23 | float         | RO  | 0       | 45695          |
| L2 IH AMPLITUDE 24 |  | Line Current L2 InterHarmonic amplitude #24 | float         | RO  | 0       | 45697          |
| L2 IH AMPLITUDE 25 |  | Line Current L2 InterHarmonic amplitude #25 | float         | RO  | 0       | 45699          |
| L2 IH AMPLITUDE 26 |  | Line Current L2 InterHarmonic amplitude #26 | float         | RO  | 0       | 45701          |
| L2 IH AMPLITUDE 27 |  | Line Current L2 InterHarmonic amplitude #27 | float         | RO  | 0       | 45703          |
| L2 IH AMPLITUDE 28 |  | Line Current L2 InterHarmonic amplitude #28 | float         | RO  | 0       | 45705          |
| L2 IH AMPLITUDE 29 |  | Line Current L2 InterHarmonic amplitude #29 | float         | RO  | 0       | 45707          |
| L2 IH AMPLITUDE 30 |  | Line Current L2 InterHarmonic amplitude #30 | float         | RO  | 0       | 45709          |
| L2 IH AMPLITUDE 31 |  | Line Current L2 InterHarmonic amplitude #31 | float         | RO  | 0       | 45711          |
| L2 IH AMPLITUDE 32 |  | Line Current L2 InterHarmonic amplitude #32 | float         | RO  | 0       | 45713          |
| L2 IH AMPLITUDE 33 |  | Line Current L2 InterHarmonic amplitude #33 | float         | RO  | 0       | 45715          |
| L2 IH AMPLITUDE 34 |  | Line Current L2 InterHarmonic amplitude #34 | float         | RO  | 0       | 45717          |
| L2 IH AMPLITUDE 35 |  | Line Current L2 InterHarmonic amplitude #35 | float         | RO  | 0       | 45719          |
| L2 IH AMPLITUDE 36 |  | Line Current L2 InterHarmonic amplitude #36 | float         | RO  | 0       | 45721          |
| L2 IH AMPLITUDE 37 |  | Line Current L2 InterHarmonic amplitude #37 | float         | RO  | 0       | 45723          |
| L2 IH AMPLITUDE 38 |  | Line Current L2 InterHarmonic amplitude #38 | float         | RO  | 0       | 45725          |
| L2 IH AMPLITUDE 39 |  | Line Current L2 InterHarmonic amplitude #39 | float         | RO  | 0       | 45727          |
| L2 IH AMPLITUDE 40 |  | Line Current L2 InterHarmonic amplitude #40 | float         | RO  | 0       | 45729          |
| L2 IH AMPLITUDE 41 |  | Line Current L2 InterHarmonic amplitude #41 | float         | RO  | 0       | 45731          |
| L2 IH AMPLITUDE 42 |  | Line Current L2 InterHarmonic amplitude #42 | float         | RO  | 0       | 45733          |
| L2 IH AMPLITUDE 43 |  | Line Current L2 InterHarmonic amplitude #43 | float         | RO  | 0       | 45735          |
| L2 IH AMPLITUDE 44 |  | Line Current L2 InterHarmonic amplitude #44 | float         | RO  | 0       | 45737          |
| L2 IH AMPLITUDE 45 |  | Line Current L2 InterHarmonic amplitude #45 | float         | RO  | 0       | 45739          |
| L2 IH AMPLITUDE 46 |  | Line Current L2 InterHarmonic amplitude #46 | float         | RO  | 0       | 45741          |
| L2 IH AMPLITUDE 47 |  | Line Current L2 InterHarmonic amplitude #47 | float         | RO  | 0       | 45743          |
| L2 IH AMPLITUDE 48 |  | Line Current L2 InterHarmonic amplitude #48 | float         | RO  | 0       | 45745          |
| L2 IH AMPLITUDE 49 |  | Line Current L2 InterHarmonic amplitude #49 | float         | RO  | 0       | 45747          |
| L2 IH AMPLITUDE 50 |  | Line Current L2 InterHarmonic amplitude #50 | float         | RO  | 0       | 45749          |
| L2 IH AMPLITUDE 51 |  | Line Current L2 InterHarmonic amplitude #51 | float         | RO  | 0       | 45751          |
| L2 IH AMPLITUDE 52 |  | Line Current L2 InterHarmonic amplitude #52 | float         | RO  | 0       | 45753          |
| L2 IH AMPLITUDE 53 |  | Line Current L2 InterHarmonic amplitude #53 | float         | RO  | 0       | 45755          |
| L2 IH AMPLITUDE 54 |  | Line Current L2 InterHarmonic amplitude #54 | float         | RO  | 0       | 45757          |
| L2 IH AMPLITUDE 55 |  | Line Current L2 InterHarmonic amplitude #55 | float         | RO  | 0       | 45759          |
| L2 IH AMPLITUDE 56 |  | Line Current L2 InterHarmonic amplitude #56 | float         | RO  | 0       | 45761          |
| L2 IH AMPLITUDE 57 |  | Line Current L2 InterHarmonic amplitude #57 | float         | RO  | 0       | 45763          |
| L2 IH AMPLITUDE 58 |  | Line Current L2 InterHarmonic amplitude #58 | float         | RO  | 0       | 45765          |
| L2 IH AMPLITUDE 59 |  | Line Current L2 InterHarmonic amplitude #59 | float         | RO  | 0       | 45767          |
| L2 IH AMPLITUDE 60 |  | Line Current L2 InterHarmonic amplitude #60 | float         | RO  | 0       | 45769          |
| L2 IH AMPLITUDE 61 |  | Line Current L2 InterHarmonic amplitude #61 | float         | RO  | 0       | 45771          |
| L2 IH AMPLITUDE 62 |  | Line Current L2 InterHarmonic amplitude #62 | float         | RO  | 0       | 45773          |
| L2 IH AMPLITUDE 63 |  | Line Current L2 InterHarmonic amplitude #63 | float         | RO  | 0       | 45775          |
| L2 IH PHASE 0      |  | Line Current L2 InterHarmonic phase #0      | float         | RO  | 0       | 45777          |
| L2 IH PHASE 1      |  | Line Current L2 InterHarmonic phase #1      | float         | RO  | 0       | 45779          |
| L2 IH PHASE 2      |  | Line Current L2 InterHarmonic phase #2      | float         | RO  | 0       | 45781          |
| L2 IH PHASE 3      |  | Line Current L2 InterHarmonic phase #3      | float         | RO  | 0       | 45783          |
| L2 IH PHASE 4      |  | Line Current L2 InterHarmonic phase #4      | float         | RO  | 0       | 45785          |
| L2 IH PHASE 5      |  | Line Current L2 InterHarmonic phase #5      | float         | RO  | 0       | 45787          |
| L2 IH PHASE 6      |  | Line Current L2 InterHarmonic phase #6      | float         | RO  | 0       | 45789          |
| L2 IH PHASE 7      |  | Line Current L2 InterHarmonic phase #7      | float         | RO  | 0       | 45791          |
| L2 IH PHASE 8      |  | Line Current L2 InterHarmonic phase #8      | float         | RO  | 0       | 45793          |
| L2 IH PHASE 9      |  | Line Current L2 InterHarmonic phase #9      | float         | RO  | 0       | 45795          |
| L2 IH PHASE 10     |  | Line Current L2 InterHarmonic phase #10     | float         | RO  | 0       | 45797          |
| L2 IH PHASE 11     |  | Line Current L2 InterHarmonic phase #11     | float         | RO  | 0       | 45799          |
| L2 IH PHASE 12     |  | Line Current L2 InterHarmonic phase #12     | float         | RO  | 0       | 45801          |
| L2 IH PHASE 13     |  | Line Current L2 InterHarmonic phase #13     | float         | RO  | 0       | 45803          |
| L2 IH PHASE 14     |  | Line Current L2 InterHarmonic phase #14     | float         | RO  | 0       | 45805          |
| L2 IH PHASE 15     |  | Line Current L2 InterHarmonic phase #15     | float         | RO  | 0       | 45807          |
| L2 IH PHASE 16     |  | Line Current L2 InterHarmonic phase #16     | float         | RO  | 0       | 45809          |
| L2 IH PHASE 17     |  | Line Current L2 InterHarmonic phase #17     | float         | RO  | 0       | 45811          |

Only FULL version

- R/W legend:
- RO: Read only
  - WO: Write only
  - R/W: Read and write

| Register Name      |  | Description                                 | Register Type | R/W | Default | Modbus Address |
|--------------------|--|---------------------------------------------|---------------|-----|---------|----------------|
| L2 IH PHASE 18     |  | Line Current L2 InterHarmonic phase #18     | float         | RO  | 0       | 45813          |
| L2 IH PHASE 19     |  | Line Current L2 InterHarmonic phase #19     | float         | RO  | 0       | 45815          |
| L2 IH PHASE 20     |  | Line Current L2 InterHarmonic phase #20     | float         | RO  | 0       | 45817          |
| L2 IH PHASE 21     |  | Line Current L2 InterHarmonic phase #21     | float         | RO  | 0       | 45819          |
| L2 IH PHASE 22     |  | Line Current L2 InterHarmonic phase #22     | float         | RO  | 0       | 45821          |
| L2 IH PHASE 23     |  | Line Current L2 InterHarmonic phase #23     | float         | RO  | 0       | 45823          |
| L2 IH PHASE 24     |  | Line Current L2 InterHarmonic phase #24     | float         | RO  | 0       | 45825          |
| L2 IH PHASE 25     |  | Line Current L2 InterHarmonic phase #25     | float         | RO  | 0       | 45827          |
| L2 IH PHASE 26     |  | Line Current L2 InterHarmonic phase #26     | float         | RO  | 0       | 45829          |
| L2 IH PHASE 27     |  | Line Current L2 InterHarmonic phase #27     | float         | RO  | 0       | 45831          |
| L2 IH PHASE 28     |  | Line Current L2 InterHarmonic phase #28     | float         | RO  | 0       | 45833          |
| L2 IH PHASE 29     |  | Line Current L2 InterHarmonic phase #29     | float         | RO  | 0       | 45835          |
| L2 IH PHASE 30     |  | Line Current L2 InterHarmonic phase #30     | float         | RO  | 0       | 45837          |
| L2 IH PHASE 31     |  | Line Current L2 InterHarmonic phase #31     | float         | RO  | 0       | 45839          |
| L2 IH PHASE 32     |  | Line Current L2 InterHarmonic phase #32     | float         | RO  | 0       | 45841          |
| L2 IH PHASE 33     |  | Line Current L2 InterHarmonic phase #33     | float         | RO  | 0       | 45843          |
| L2 IH PHASE 34     |  | Line Current L2 InterHarmonic phase #34     | float         | RO  | 0       | 45845          |
| L2 IH PHASE 35     |  | Line Current L2 InterHarmonic phase #35     | float         | RO  | 0       | 45847          |
| L2 IH PHASE 36     |  | Line Current L2 InterHarmonic phase #36     | float         | RO  | 0       | 45849          |
| L2 IH PHASE 37     |  | Line Current L2 InterHarmonic phase #37     | float         | RO  | 0       | 45851          |
| L2 IH PHASE 38     |  | Line Current L2 InterHarmonic phase #38     | float         | RO  | 0       | 45853          |
| L2 IH PHASE 39     |  | Line Current L2 InterHarmonic phase #39     | float         | RO  | 0       | 45855          |
| L2 IH PHASE 40     |  | Line Current L2 InterHarmonic phase #40     | float         | RO  | 0       | 45857          |
| L2 IH PHASE 41     |  | Line Current L2 InterHarmonic phase #41     | float         | RO  | 0       | 45859          |
| L2 IH PHASE 42     |  | Line Current L2 InterHarmonic phase #42     | float         | RO  | 0       | 45861          |
| L2 IH PHASE 43     |  | Line Current L2 InterHarmonic phase #43     | float         | RO  | 0       | 45863          |
| L2 IH PHASE 44     |  | Line Current L2 InterHarmonic phase #44     | float         | RO  | 0       | 45865          |
| L2 IH PHASE 45     |  | Line Current L2 InterHarmonic phase #45     | float         | RO  | 0       | 45867          |
| L2 IH PHASE 46     |  | Line Current L2 InterHarmonic phase #46     | float         | RO  | 0       | 45869          |
| L2 IH PHASE 47     |  | Line Current L2 InterHarmonic phase #47     | float         | RO  | 0       | 45871          |
| L2 IH PHASE 48     |  | Line Current L2 InterHarmonic phase #48     | float         | RO  | 0       | 45873          |
| L2 IH PHASE 49     |  | Line Current L2 InterHarmonic phase #49     | float         | RO  | 0       | 45875          |
| L2 IH PHASE 50     |  | Line Current L2 InterHarmonic phase #50     | float         | RO  | 0       | 45877          |
| L2 IH PHASE 51     |  | Line Current L2 InterHarmonic phase #51     | float         | RO  | 0       | 45879          |
| L2 IH PHASE 52     |  | Line Current L2 InterHarmonic phase #52     | float         | RO  | 0       | 45881          |
| L2 IH PHASE 53     |  | Line Current L2 InterHarmonic phase #53     | float         | RO  | 0       | 45883          |
| L2 IH PHASE 54     |  | Line Current L2 InterHarmonic phase #54     | float         | RO  | 0       | 45885          |
| L2 IH PHASE 55     |  | Line Current L2 InterHarmonic phase #55     | float         | RO  | 0       | 45887          |
| L2 IH PHASE 56     |  | Line Current L2 InterHarmonic phase #56     | float         | RO  | 0       | 45889          |
| L2 IH PHASE 57     |  | Line Current L2 InterHarmonic phase #57     | float         | RO  | 0       | 45891          |
| L2 IH PHASE 58     |  | Line Current L2 InterHarmonic phase #58     | float         | RO  | 0       | 45893          |
| L2 IH PHASE 59     |  | Line Current L2 InterHarmonic phase #59     | float         | RO  | 0       | 45895          |
| L2 IH PHASE 60     |  | Line Current L2 InterHarmonic phase #60     | float         | RO  | 0       | 45897          |
| L2 IH PHASE 61     |  | Line Current L2 InterHarmonic phase #61     | float         | RO  | 0       | 45899          |
| L2 IH PHASE 62     |  | Line Current L2 InterHarmonic phase #62     | float         | RO  | 0       | 45901          |
| L2 IH PHASE 63     |  | Line Current L2 InterHarmonic phase #63     | float         | RO  | 0       | 45903          |
| L3 IH AMPLITUDE 0  |  | Line Current L3 InterHarmonic amplitude #0  | float         | RO  | 0       | 45905          |
| L3 IH AMPLITUDE 1  |  | Line Current L3 InterHarmonic amplitude #1  | float         | RO  | 0       | 45907          |
| L3 IH AMPLITUDE 2  |  | Line Current L3 InterHarmonic amplitude #2  | float         | RO  | 0       | 45909          |
| L3 IH AMPLITUDE 3  |  | Line Current L3 InterHarmonic amplitude #3  | float         | RO  | 0       | 45911          |
| L3 IH AMPLITUDE 4  |  | Line Current L3 InterHarmonic amplitude #4  | float         | RO  | 0       | 45913          |
| L3 IH AMPLITUDE 5  |  | Line Current L3 InterHarmonic amplitude #5  | float         | RO  | 0       | 45915          |
| L3 IH AMPLITUDE 6  |  | Line Current L3 InterHarmonic amplitude #6  | float         | RO  | 0       | 45917          |
| L3 IH AMPLITUDE 7  |  | Line Current L3 InterHarmonic amplitude #7  | float         | RO  | 0       | 45919          |
| L3 IH AMPLITUDE 8  |  | Line Current L3 InterHarmonic amplitude #8  | float         | RO  | 0       | 45921          |
| L3 IH AMPLITUDE 9  |  | Line Current L3 InterHarmonic amplitude #9  | float         | RO  | 0       | 45923          |
| L3 IH AMPLITUDE 10 |  | Line Current L3 InterHarmonic amplitude #10 | float         | RO  | 0       | 45925          |
| L3 IH AMPLITUDE 11 |  | Line Current L3 InterHarmonic amplitude #11 | float         | RO  | 0       | 45927          |
| L3 IH AMPLITUDE 12 |  | Line Current L3 InterHarmonic amplitude #12 | float         | RO  | 0       | 45929          |
| L3 IH AMPLITUDE 13 |  | Line Current L3 InterHarmonic amplitude #13 | float         | RO  | 0       | 45931          |
| L3 IH AMPLITUDE 14 |  | Line Current L3 InterHarmonic amplitude #14 | float         | RO  | 0       | 45933          |
| L3 IH AMPLITUDE 15 |  | Line Current L3 InterHarmonic amplitude #15 | float         | RO  | 0       | 45935          |
| L3 IH AMPLITUDE 16 |  | Line Current L3 InterHarmonic amplitude #16 | float         | RO  | 0       | 45937          |
| L3 IH AMPLITUDE 17 |  | Line Current L3 InterHarmonic amplitude #17 | float         | RO  | 0       | 45939          |
| L3 IH AMPLITUDE 18 |  | Line Current L3 InterHarmonic amplitude #18 | float         | RO  | 0       | 45941          |
| L3 IH AMPLITUDE 19 |  | Line Current L3 InterHarmonic amplitude #19 | float         | RO  | 0       | 45943          |
| L3 IH AMPLITUDE 20 |  | Line Current L3 InterHarmonic amplitude #20 | float         | RO  | 0       | 45945          |
| L3 IH AMPLITUDE 21 |  | Line Current L3 InterHarmonic amplitude #21 | float         | RO  | 0       | 45947          |
| L3 IH AMPLITUDE 22 |  | Line Current L3 InterHarmonic amplitude #22 | float         | RO  | 0       | 45949          |
| L3 IH AMPLITUDE 23 |  | Line Current L3 InterHarmonic amplitude #23 | float         | RO  | 0       | 45951          |
| L3 IH AMPLITUDE 24 |  | Line Current L3 InterHarmonic amplitude #24 | float         | RO  | 0       | 45953          |
| L3 IH AMPLITUDE 25 |  | Line Current L3 InterHarmonic amplitude #25 | float         | RO  | 0       | 45955          |
| L3 IH AMPLITUDE 26 |  | Line Current L3 InterHarmonic amplitude #26 | float         | RO  | 0       | 45957          |
| L3 IH AMPLITUDE 27 |  | Line Current L3 InterHarmonic amplitude #27 | float         | RO  | 0       | 45959          |
| L3 IH AMPLITUDE 28 |  | Line Current L3 InterHarmonic amplitude #28 | float         | RO  | 0       | 45961          |
| L3 IH AMPLITUDE 29 |  | Line Current L3 InterHarmonic amplitude #29 | float         | RO  | 0       | 45963          |
| L3 IH AMPLITUDE 30 |  | Line Current L3 InterHarmonic amplitude #30 | float         | RO  | 0       | 45965          |
| L3 IH AMPLITUDE 31 |  | Line Current L3 InterHarmonic amplitude #31 | float         | RO  | 0       | 45967          |
| L3 IH AMPLITUDE 32 |  | Line Current L3 InterHarmonic amplitude #32 | float         | RO  | 0       | 45969          |
| L3 IH AMPLITUDE 33 |  | Line Current L3 InterHarmonic amplitude #33 | float         | RO  | 0       | 45971          |
| L3 IH AMPLITUDE 34 |  | Line Current L3 InterHarmonic amplitude #34 | float         | RO  | 0       | 45973          |
| L3 IH AMPLITUDE 35 |  | Line Current L3 InterHarmonic amplitude #35 | float         | RO  | 0       | 45975          |
| L3 IH AMPLITUDE 36 |  | Line Current L3 InterHarmonic amplitude #36 | float         | RO  | 0       | 45977          |
| L3 IH AMPLITUDE 37 |  | Line Current L3 InterHarmonic amplitude #37 | float         | RO  | 0       | 45979          |
| L3 IH AMPLITUDE 38 |  | Line Current L3 InterHarmonic amplitude #38 | float         | RO  | 0       | 45981          |
| L3 IH AMPLITUDE 39 |  | Line Current L3 InterHarmonic amplitude #39 | float         | RO  | 0       | 45983          |
| L3 IH AMPLITUDE 40 |  | Line Current L3 InterHarmonic amplitude #40 | float         | RO  | 0       | 45985          |
| L3 IH AMPLITUDE 41 |  | Line Current L3 InterHarmonic amplitude #41 | float         | RO  | 0       | 45987          |
| L3 IH AMPLITUDE 42 |  | Line Current L3 InterHarmonic amplitude #42 | float         | RO  | 0       | 45989          |
| L3 IH AMPLITUDE 43 |  | Line Current L3 InterHarmonic amplitude #43 | float         | RO  | 0       | 45991          |
| L3 IH AMPLITUDE 44 |  | Line Current L3 InterHarmonic amplitude #44 | float         | RO  | 0       | 45993          |
| L3 IH AMPLITUDE 45 |  | Line Current L3 InterHarmonic amplitude #45 | float         | RO  | 0       | 45995          |
| L3 IH AMPLITUDE 46 |  | Line Current L3 InterHarmonic amplitude #46 | float         | RO  | 0       | 45997          |
| L3 IH AMPLITUDE 47 |  | Line Current L3 InterHarmonic amplitude #47 | float         | RO  | 0       | 45999          |
| L3 IH AMPLITUDE 48 |  | Line Current L3 InterHarmonic amplitude #48 | float         | RO  | 0       | 46001          |
| L3 IH AMPLITUDE 49 |  | Line Current L3 InterHarmonic amplitude #49 | float         | RO  | 0       | 46003          |
| L3 IH AMPLITUDE 50 |  | Line Current L3 InterHarmonic amplitude #50 | float         | RO  | 0       | 46005          |
| L3 IH AMPLITUDE 51 |  | Line Current L3 InterHarmonic amplitude #51 | float         | RO  | 0       | 46007          |
| L3 IH AMPLITUDE 52 |  | Line Current L3 InterHarmonic amplitude #52 | float         | RO  | 0       | 46009          |
| L3 IH AMPLITUDE 53 |  | Line Current L3 InterHarmonic amplitude #53 | float         | RO  | 0       | 46011          |
| L3 IH AMPLITUDE 54 |  | Line Current L3 InterHarmonic amplitude #54 | float         | RO  | 0       | 46013          |
| L3 IH AMPLITUDE 55 |  | Line Current L3 InterHarmonic amplitude #55 | float         | RO  | 0       | 46015          |
| L3 IH AMPLITUDE 56 |  | Line Current L3 InterHarmonic amplitude #56 | float         | RO  | 0       | 46017          |
| L3 IH AMPLITUDE 57 |  | Line Current L3 InterHarmonic amplitude #57 | float         | RO  | 0       | 46019          |
| L3 IH AMPLITUDE 58 |  | Line Current L3 InterHarmonic amplitude #58 | float         | RO  | 0       | 46021          |
| L3 IH AMPLITUDE 59 |  | Line Current L3 InterHarmonic amplitude #59 | float         | RO  | 0       | 46023          |
| L3 IH AMPLITUDE 60 |  | Line Current L3 InterHarmonic amplitude #60 | float         | RO  | 0       | 46025          |
| L3 IH AMPLITUDE 61 |  | Line Current L3 InterHarmonic amplitude #61 | float         | RO  | 0       | 46027          |
| L3 IH AMPLITUDE 62 |  | Line Current L3 InterHarmonic amplitude #62 | float         | RO  | 0       | 46029          |
| L3 IH AMPLITUDE 63 |  | Line Current L3 InterHarmonic amplitude #63 | float         | RO  | 0       | 46031          |
| L3 IH PHASE 0      |  | Line Current L3 InterHarmonic phase #0      | float         | RO  | 0       | 46033          |
| L3 IH PHASE 1      |  | Line Current L3 InterHarmonic phase #1      | float         | RO  | 0       | 46035          |
| L3 IH PHASE 2      |  | Line Current L3 InterHarmonic phase #2      | float         | RO  | 0       | 46037          |
| L3 IH PHASE 3      |  | Line Current L3 InterHarmonic phase #3      | float         | RO  | 0       | 46039          |
| L3 IH PHASE 4      |  | Line Current L3 InterHarmonic phase #4      | float         | RO  | 0       | 46041          |
| L3 IH PHASE 5      |  | Line Current L3 InterHarmonic phase #5      | float         | RO  | 0       | 46043          |
| L3 IH PHASE 6      |  | Line Current L3 InterHarmonic phase #6      | float         | RO  | 0       | 46045          |
| L3 IH PHASE 7      |  | Line Current L3 InterHarmonic phase #7      | float         | RO  | 0       | 46047          |
| L3 IH PHASE 8      |  | Line Current L3 InterHarmonic phase #8      | float         | RO  | 0       | 46049          |
| L3 IH PHASE 9      |  | Line Current L3 InterHarmonic phase #9      | float         | RO  | 0       | 46051          |
| L3 IH PHASE 10     |  | Line Current L3 InterHarmonic phase #10     | float         | RO  | 0       | 46053          |

[illegible]

- RO: Read only
- WO: Write only
- R/W: Read and write

Only FULL version

| Register Name      | Description                                                              | Register Type  | R/W | Default | Modbus Address |
|--------------------|--------------------------------------------------------------------------|----------------|-----|---------|----------------|
| I_N_IH_PHASE_4     | Line Current N InterHarmonic phase #4                                    | float          | RO  | 0       | 46297          |
| I_N_IH_PHASE_5     | Line Current N InterHarmonic phase #5                                    | float          | RO  | 0       | 46299          |
| I_N_IH_PHASE_6     | Line Current N InterHarmonic phase #6                                    | float          | RO  | 0       | 46301          |
| I_N_IH_PHASE_7     | Line Current N InterHarmonic phase #7                                    | float          | RO  | 0       | 46303          |
| I_N_IH_PHASE_8     | Line Current N InterHarmonic phase #8                                    | float          | RO  | 0       | 46305          |
| I_N_IH_PHASE_9     | Line Current N InterHarmonic phase #9                                    | float          | RO  | 0       | 46307          |
| I_N_IH_PHASE_10    | Line Current N InterHarmonic phase #10                                   | float          | RO  | 0       | 46309          |
| I_N_IH_PHASE_11    | Line Current N InterHarmonic phase #11                                   | float          | RO  | 0       | 46311          |
| I_N_IH_PHASE_12    | Line Current N InterHarmonic phase #12                                   | float          | RO  | 0       | 46313          |
| I_N_IH_PHASE_13    | Line Current N InterHarmonic phase #13                                   | float          | RO  | 0       | 46315          |
| I_N_IH_PHASE_14    | Line Current N InterHarmonic phase #14                                   | float          | RO  | 0       | 46317          |
| I_N_IH_PHASE_15    | Line Current N InterHarmonic phase #15                                   | float          | RO  | 0       | 46319          |
| I_N_IH_PHASE_16    | Line Current N InterHarmonic phase #16                                   | float          | RO  | 0       | 46321          |
| I_N_IH_PHASE_17    | Line Current N InterHarmonic phase #17                                   | float          | RO  | 0       | 46323          |
| I_N_IH_PHASE_18    | Line Current N InterHarmonic phase #18                                   | float          | RO  | 0       | 46325          |
| I_N_IH_PHASE_19    | Line Current N InterHarmonic phase #19                                   | float          | RO  | 0       | 46327          |
| I_N_IH_PHASE_20    | Line Current N InterHarmonic phase #20                                   | float          | RO  | 0       | 46329          |
| I_N_IH_PHASE_21    | Line Current N InterHarmonic phase #21                                   | float          | RO  | 0       | 46331          |
| I_N_IH_PHASE_22    | Line Current N InterHarmonic phase #22                                   | float          | RO  | 0       | 46333          |
| I_N_IH_PHASE_23    | Line Current N InterHarmonic phase #23                                   | float          | RO  | 0       | 46335          |
| I_N_IH_PHASE_24    | Line Current N InterHarmonic phase #24                                   | float          | RO  | 0       | 46337          |
| I_N_IH_PHASE_25    | Line Current N InterHarmonic phase #25                                   | float          | RO  | 0       | 46339          |
| I_N_IH_PHASE_26    | Line Current N InterHarmonic phase #26                                   | float          | RO  | 0       | 46341          |
| I_N_IH_PHASE_27    | Line Current N InterHarmonic phase #27                                   | float          | RO  | 0       | 46343          |
| I_N_IH_PHASE_28    | Line Current N InterHarmonic phase #28                                   | float          | RO  | 0       | 46345          |
| I_N_IH_PHASE_29    | Line Current N InterHarmonic phase #29                                   | float          | RO  | 0       | 46347          |
| I_N_IH_PHASE_30    | Line Current N InterHarmonic phase #30                                   | float          | RO  | 0       | 46349          |
| I_N_IH_PHASE_31    | Line Current N InterHarmonic phase #31                                   | float          | RO  | 0       | 46351          |
| I_N_IH_PHASE_32    | Line Current N InterHarmonic phase #32                                   | float          | RO  | 0       | 46353          |
| I_N_IH_PHASE_33    | Line Current N InterHarmonic phase #33                                   | float          | RO  | 0       | 46355          |
| I_N_IH_PHASE_34    | Line Current N InterHarmonic phase #34                                   | float          | RO  | 0       | 46357          |
| I_N_IH_PHASE_35    | Line Current N InterHarmonic phase #35                                   | float          | RO  | 0       | 46359          |
| I_N_IH_PHASE_36    | Line Current N InterHarmonic phase #36                                   | float          | RO  | 0       | 46361          |
| I_N_IH_PHASE_37    | Line Current N InterHarmonic phase #37                                   | float          | RO  | 0       | 46363          |
| I_N_IH_PHASE_38    | Line Current N InterHarmonic phase #38                                   | float          | RO  | 0       | 46365          |
| I_N_IH_PHASE_39    | Line Current N InterHarmonic phase #39                                   | float          | RO  | 0       | 46367          |
| I_N_IH_PHASE_40    | Line Current N InterHarmonic phase #40                                   | float          | RO  | 0       | 46369          |
| I_N_IH_PHASE_41    | Line Current N InterHarmonic phase #41                                   | float          | RO  | 0       | 46371          |
| I_N_IH_PHASE_42    | Line Current N InterHarmonic phase #42                                   | float          | RO  | 0       | 46373          |
| I_N_IH_PHASE_43    | Line Current N InterHarmonic phase #43                                   | float          | RO  | 0       | 46375          |
| I_N_IH_PHASE_44    | Line Current N InterHarmonic phase #44                                   | float          | RO  | 0       | 46377          |
| I_N_IH_PHASE_45    | Line Current N InterHarmonic phase #45                                   | float          | RO  | 0       | 46379          |
| I_N_IH_PHASE_46    | Line Current N InterHarmonic phase #46                                   | float          | RO  | 0       | 46381          |
| I_N_IH_PHASE_47    | Line Current N InterHarmonic phase #47                                   | float          | RO  | 0       | 46383          |
| I_N_IH_PHASE_48    | Line Current N InterHarmonic phase #48                                   | float          | RO  | 0       | 46385          |
| I_N_IH_PHASE_49    | Line Current N InterHarmonic phase #49                                   | float          | RO  | 0       | 46387          |
| I_N_IH_PHASE_50    | Line Current N InterHarmonic phase #50                                   | float          | RO  | 0       | 46389          |
| I_N_IH_PHASE_51    | Line Current N InterHarmonic phase #51                                   | float          | RO  | 0       | 46391          |
| I_N_IH_PHASE_52    | Line Current N InterHarmonic phase #52                                   | float          | RO  | 0       | 46393          |
| I_N_IH_PHASE_53    | Line Current N InterHarmonic phase #53                                   | float          | RO  | 0       | 46395          |
| I_N_IH_PHASE_54    | Line Current N InterHarmonic phase #54                                   | float          | RO  | 0       | 46397          |
| I_N_IH_PHASE_55    | Line Current N InterHarmonic phase #55                                   | float          | RO  | 0       | 46399          |
| I_N_IH_PHASE_56    | Line Current N InterHarmonic phase #56                                   | float          | RO  | 0       | 46401          |
| I_N_IH_PHASE_57    | Line Current N InterHarmonic phase #57                                   | float          | RO  | 0       | 46403          |
| I_N_IH_PHASE_58    | Line Current N InterHarmonic phase #58                                   | float          | RO  | 0       | 46405          |
| I_N_IH_PHASE_59    | Line Current N InterHarmonic phase #59                                   | float          | RO  | 0       | 46407          |
| I_N_IH_PHASE_60    | Line Current N InterHarmonic phase #60                                   | float          | RO  | 0       | 46409          |
| I_N_IH_PHASE_61    | Line Current N InterHarmonic phase #61                                   | float          | RO  | 0       | 46411          |
| I_N_IH_PHASE_62    | Line Current N InterHarmonic phase #62                                   | float          | RO  | 0       | 46413          |
| I_N_IH_PHASE_63    | Line Current N InterHarmonic phase #63                                   | float          | RO  | 0       | 46415          |
| Power Quality      |                                                                          |                |     |         |                |
| V_SAG_VALUE_N_0    | Voltage Sag RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-0 | float          | RO  | 0       | 46417          |
| V_SAG_YEAR_N_0     | Voltage Sag Year @ n-0                                                   | unsigned short | RO  | 0       | 46419          |
| V_SAG_MONTH_N_0    | Voltage Sag Month @ n-0                                                  | unsigned short | RO  | 0       | 46420          |
| V_SAG_DAY_N_0      | Voltage Sag Day @ n-0                                                    | unsigned short | RO  | 0       | 46421          |
| V_SAG_HOUR_N_0     | Voltage Sag Hour @ n-0                                                   | unsigned short | RO  | 0       | 46422          |
| V_SAG_MINUTE_N_0   | Voltage Sag Minute @ n-0                                                 | unsigned short | RO  | 0       | 46423          |
| V_SAG_SECOND_N_0   | Voltage Sag Second @ n-0                                                 | unsigned short | RO  | 0       | 46424          |
| V_SAG_DURATION_N_0 | Voltage Sag Duration [ms] @ n-0                                          | unsigned short | RO  | 0       | 464            |

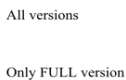


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- RO: Read only
- WO: Write only
- R/W: Read and write

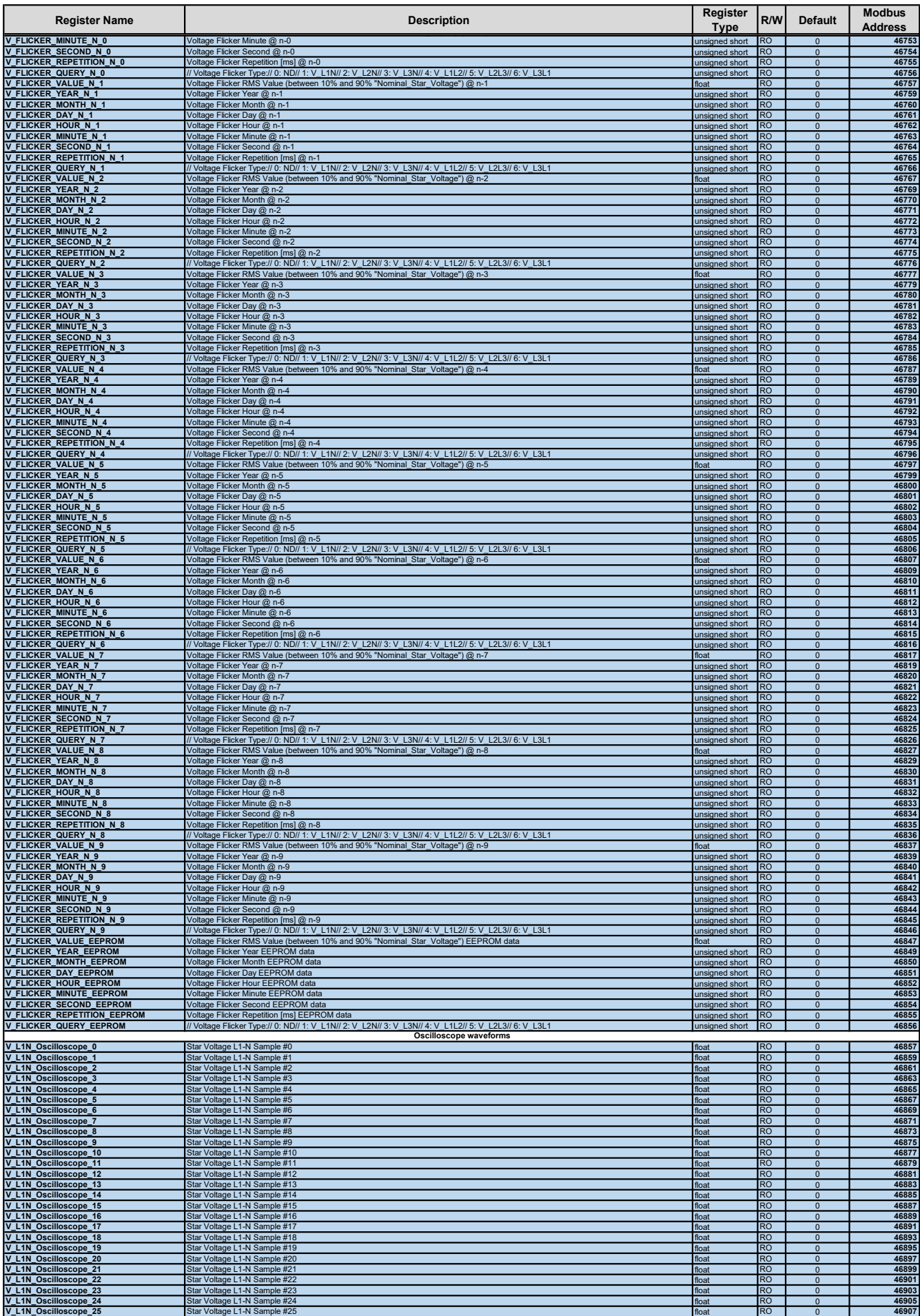
Only FULL version

| Register Name                  | Description                                                                                                | Register Type  | R/W | Default | Modbus Address |
|--------------------------------|------------------------------------------------------------------------------------------------------------|----------------|-----|---------|----------------|
| V SWELL_YEAR_N_9               | Voltage Swell Year @ n-9                                                                                   | unsigned short | RO  | 0       | 46619          |
| V SWELL_MONTH_N_9              | Voltage Swell Month @ n-9                                                                                  | unsigned short | RO  | 0       | 46620          |
| V SWELL_DAY_N_9                | Voltage Swell Day @ n-9                                                                                    | unsigned short | RO  | 0       | 46621          |
| V SWELL_HOUR_N_9               | Voltage Swell Hour @ n-9                                                                                   | unsigned short | RO  | 0       | 46622          |
| V SWELL_MINUTE_N_9             | Voltage Swell Minute @ n-9                                                                                 | unsigned short | RO  | 0       | 46623          |
| V SWELL_SECOND_N_9             | Voltage Swell Second @ n-9                                                                                 | unsigned short | RO  | 0       | 46624          |
| V SWELL_DURATION_N_9           | Voltage Swell Duration [ms] @ n-9                                                                          | unsigned short | RO  | 0       | 46625          |
| V SWELL_QUERY_N_9              | // Voltage Swell Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1        | unsigned short | RO  | 0       | 46626          |
| V SWELL_VALUE_EEPROM           | Voltage RMS Value (between 10% and 90% "Nominal Star Voltage") EEPROM data                                 | float          | RO  | 0       | 46627          |
| V SWELL_YEAR_EEPROM            | Voltage Swell Year EEPROM data                                                                             | unsigned short | RO  | 0       | 46629          |
| V SWELL_MONTH_EEPROM           | Voltage Swell Month EEPROM data                                                                            | unsigned short | RO  | 0       | 46630          |
| V SWELL_DAY_EEPROM             | Voltage Swell Day EEPROM data                                                                              | unsigned short | RO  | 0       | 46631          |
| V SWELL_HOUR_EEPROM            | Voltage Swell Hour EEPROM data                                                                             | unsigned short | RO  | 0       | 46632          |
| V SWELL_MINUTE_EEPROM          | Voltage Swell Minute EEPROM data                                                                           | unsigned short | RO  | 0       | 46633          |
| V SWELL_SECOND_EEPROM          | Voltage Swell Second EEPROM data                                                                           | unsigned short | RO  | 0       | 46634          |
| V SWELL_DURATION_EEPROM        | Voltage Swell Duration [ms] EEPROM data                                                                    | unsigned short | RO  | 0       | 46635          |
| V SWELL_QUERY_EEPROM           | // Voltage Swell Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1        | unsigned short | RO  | 0       | 46636          |
| V INTERRUPTION_VALUE_N_0       | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-0                          | float          | RO  | 0       | 46637          |
| V INTERRUPTION_YEAR_N_0        | Voltage Interruption Year @ n-0                                                                            | unsigned short | RO  | 0       | 46639          |
| V INTERRUPTION_MONTH_N_0       | Voltage Interruption Month @ n-0                                                                           | unsigned short | RO  | 0       | 46640          |
| V INTERRUPTION_DAY_N_0         | Voltage Interruption Day @ n-0                                                                             | unsigned short | RO  | 0       | 46641          |
| V INTERRUPTION_HOUR_N_0        | Voltage Interruption Hour @ n-0                                                                            | unsigned short | RO  | 0       | 46642          |
| V INTERRUPTION_MINUTE_N_0      | Voltage Interruption Minute @ n-0                                                                          | unsigned short | RO  | 0       | 46643          |
| V INTERRUPTION_SECOND_N_0      | Voltage Interruption Second @ n-0                                                                          | unsigned short | RO  | 0       | 46644          |
| V INTERRUPTION_DURATION_N_0    | Voltage Interruption Duration [ms] @ n-0                                                                   | unsigned short | RO  | 0       | 46645          |
| V INTERRUPTION_QUERY_N_0       | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46646          |
| V INTERRUPTION_VALUE_N_1       | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-1                          | float          | RO  | 0       | 46647          |
| V INTERRUPTION_YEAR_N_1        | Voltage Interruption Year @ n-1                                                                            | unsigned short | RO  | 0       | 46649          |
| V INTERRUPTION_MONTH_N_1       | Voltage Interruption Month @ n-1                                                                           | unsigned short | RO  | 0       | 46650          |
| V INTERRUPTION_DAY_N_1         | Voltage Interruption Day @ n-1                                                                             | unsigned short | RO  | 0       | 46651          |
| V INTERRUPTION_HOUR_N_1        | Voltage Interruption Hour @ n-1                                                                            | unsigned short | RO  | 0       | 46652          |
| V INTERRUPTION_MINUTE_N_1      | Voltage Interruption Minute @ n-1                                                                          | unsigned short | RO  | 0       | 46653          |
| V INTERRUPTION_SECOND_N_1      | Voltage Interruption Second @ n-1                                                                          | unsigned short | RO  | 0       | 46654          |
| V INTERRUPTION_DURATION_N_1    | Voltage Interruption Duration [ms] @ n-1                                                                   | unsigned short | RO  | 0       | 46655          |
| V INTERRUPTION_QUERY_N_1       | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46656          |
| V INTERRUPTION_VALUE_N_2       | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-2                          | float          | RO  | 0       | 46657          |
| V INTERRUPTION_YEAR_N_2        | Voltage Interruption Year @ n-2                                                                            | unsigned short | RO  | 0       | 46659          |
| V INTERRUPTION_MONTH_N_2       | Voltage Interruption Month @ n-2                                                                           | unsigned short | RO  | 0       | 46660          |
| V INTERRUPTION_DAY_N_2         | Voltage Interruption Day @ n-2                                                                             | unsigned short | RO  | 0       | 46661          |
| V INTERRUPTION_HOUR_N_2        | Voltage Interruption Hour @ n-2                                                                            | unsigned short | RO  | 0       | 46662          |
| V INTERRUPTION_MINUTE_N_2      | Voltage Interruption Minute @ n-2                                                                          | unsigned short | RO  | 0       | 46663          |
| V INTERRUPTION_SECOND_N_2      | Voltage Interruption Second @ n-2                                                                          | unsigned short | RO  | 0       | 46664          |
| V INTERRUPTION_DURATION_N_2    | Voltage Interruption Duration [ms] @ n-2                                                                   | unsigned short | RO  | 0       | 46665          |
| V INTERRUPTION_QUERY_N_2       | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46666          |
| V INTERRUPTION_VALUE_N_3       | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-3                          | float          | RO  | 0       | 46667          |
| V INTERRUPTION_YEAR_N_3        | Voltage Interruption Year @ n-3                                                                            | unsigned short | RO  | 0       | 46669          |
| V INTERRUPTION_MONTH_N_3       | Voltage Interruption Month @ n-3                                                                           | unsigned short | RO  | 0       | 46670          |
| V INTERRUPTION_DAY_N_3         | Voltage Interruption Day @ n-3                                                                             | unsigned short | RO  | 0       | 46671          |
| V INTERRUPTION_HOUR_N_3        | Voltage Interruption Hour @ n-3                                                                            | unsigned short | RO  | 0       | 46672          |
| V INTERRUPTION_MINUTE_N_3      | Voltage Interruption Minute @ n-3                                                                          | unsigned short | RO  | 0       | 46673          |
| V INTERRUPTION_SECOND_N_3      | Voltage Interruption Second @ n-3                                                                          | unsigned short | RO  | 0       | 46674          |
| V INTERRUPTION_DURATION_N_3    | Voltage Interruption Duration [ms] @ n-3                                                                   | unsigned short | RO  | 0       | 46675          |
| V INTERRUPTION_QUERY_N_3       | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46676          |
| V INTERRUPTION_VALUE_N_4       | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-4                          | float          | RO  | 0       | 46677          |
| V INTERRUPTION_YEAR_N_4        | Voltage Interruption Year @ n-4                                                                            | unsigned short | RO  | 0       | 46679          |
| V INTERRUPTION_MONTH_N_4       | Voltage Interruption Month @ n-4                                                                           | unsigned short | RO  | 0       | 46680          |
| V INTERRUPTION_DAY_N_4         | Voltage Interruption Day @ n-4                                                                             | unsigned short | RO  | 0       | 46681          |
| V INTERRUPTION_HOUR_N_4        | Voltage Interruption Hour @ n-4                                                                            | unsigned short | RO  | 0       | 46682          |
| V INTERRUPTION_MINUTE_N_4      | Voltage Interruption Minute @ n-4                                                                          | unsigned short | RO  | 0       | 46683          |
| V INTERRUPTION_SECOND_N_4      | Voltage Interruption Second @ n-4                                                                          | unsigned short | RO  | 0       | 46684          |
| V INTERRUPTION_DURATION_N_4    | Voltage Interruption Duration [ms] @ n-4                                                                   | unsigned short | RO  | 0       | 46685          |
| V INTERRUPTION_QUERY_N_4       | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46686          |
| V INTERRUPTION_VALUE_N_5       | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-5                          | float          | RO  | 0       | 46687          |
| V INTERRUPTION_YEAR_N_5        | Voltage Interruption Year @ n-5                                                                            | unsigned short | RO  | 0       | 46689          |
| V INTERRUPTION_MONTH_N_5       | Voltage Interruption Month @ n-5                                                                           | unsigned short | RO  | 0       | 46690          |
| V INTERRUPTION_DAY_N_5         | Voltage Interruption Day @ n-5                                                                             | unsigned short | RO  | 0       | 46691          |
| V INTERRUPTION_HOUR_N_5        | Voltage Interruption Hour @ n-5                                                                            | unsigned short | RO  | 0       | 46692          |
| V INTERRUPTION_MINUTE_N_5      | Voltage Interruption Minute @ n-5                                                                          | unsigned short | RO  | 0       | 46693          |
| V INTERRUPTION_SECOND_N_5      | Voltage Interruption Second @ n-5                                                                          | unsigned short | RO  | 0       | 46694          |
| V INTERRUPTION_DURATION_N_5    | Voltage Interruption Duration [ms] @ n-5                                                                   | unsigned short | RO  | 0       | 46695          |
| V INTERRUPTION_QUERY_N_5       | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46696          |
| V INTERRUPTION_VALUE_N_6       | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-6                          | float          | RO  | 0       | 46697          |
| V INTERRUPTION_YEAR_N_6        | Voltage Interruption Year @ n-6                                                                            | unsigned short | RO  | 0       | 46699          |
| V INTERRUPTION_MONTH_N_6       | Voltage Interruption Month @ n-6                                                                           | unsigned short | RO  | 0       | 46700          |
| V INTERRUPTION_DAY_N_6         | Voltage Interruption Day @ n-6                                                                             | unsigned short | RO  | 0       | 46701          |
| V INTERRUPTION_HOUR_N_6        | Voltage Interruption Hour @ n-6                                                                            | unsigned short | RO  | 0       | 46702          |
| V INTERRUPTION_MINUTE_N_6      | Voltage Interruption Minute @ n-6                                                                          | unsigned short | RO  | 0       | 46703          |
| V INTERRUPTION_SECOND_N_6      | Voltage Interruption Second @ n-6                                                                          | unsigned short | RO  | 0       | 46704          |
| V INTERRUPTION_DURATION_N_6    | Voltage Interruption Duration [ms] @ n-6                                                                   | unsigned short | RO  | 0       | 46705          |
| V INTERRUPTION_QUERY_N_6       | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46706          |
| V INTERRUPTION_VALUE_N_7       | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-7                          | float          | RO  | 0       | 46707          |
| V INTERRUPTION_YEAR_N_7        | Voltage Interruption Year @ n-7                                                                            | unsigned short | RO  | 0       | 46709          |
| V INTERRUPTION_MONTH_N_7       | Voltage Interruption Month @ n-7                                                                           | unsigned short | RO  | 0       | 46710          |
| V INTERRUPTION_DAY_N_7         | Voltage Interruption Day @ n-7                                                                             | unsigned short | RO  | 0       | 46711          |
| V INTERRUPTION_HOUR_N_7        | Voltage Interruption Hour @ n-7                                                                            | unsigned short | RO  | 0       | 46712          |
| V INTERRUPTION_MINUTE_N_7      | Voltage Interruption Minute @ n-7                                                                          | unsigned short | RO  | 0       | 46713          |
| V INTERRUPTION_SECOND_N_7      | Voltage Interruption Second @ n-7                                                                          | unsigned short | RO  | 0       | 46714          |
| V INTERRUPTION_DURATION_N_7    | Voltage Interruption Duration [ms] @ n-7                                                                   | unsigned short | RO  | 0       | 46715          |
| V INTERRUPTION_QUERY_N_7       | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46716          |
| V INTERRUPTION_VALUE_N_8       | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-8                          | float          | RO  | 0       | 46717          |
| V INTERRUPTION_YEAR_N_8        | Voltage Interruption Year @ n-8                                                                            | unsigned short | RO  | 0       | 46719          |
| V INTERRUPTION_MONTH_N_8       | Voltage Interruption Month @ n-8                                                                           | unsigned short | RO  | 0       | 46720          |
| V INTERRUPTION_DAY_N_8         | Voltage Interruption Day @ n-8                                                                             | unsigned short | RO  | 0       | 46721          |
| V INTERRUPTION_HOUR_N_8        | Voltage Interruption Hour @ n-8                                                                            | unsigned short | RO  | 0       | 46722          |
| V INTERRUPTION_MINUTE_N_8      | Voltage Interruption Minute @ n-8                                                                          | unsigned short | RO  | 0       | 46723          |
| V INTERRUPTION_SECOND_N_8      | Voltage Interruption Second @ n-8                                                                          | unsigned short | RO  | 0       | 46724          |
| V INTERRUPTION_DURATION_N_8    | Voltage Interruption Duration [ms] @ n-8                                                                   | unsigned short | RO  | 0       | 46725          |
| V INTERRUPTION_QUERY_N_8       | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46726          |
| V INTERRUPTION_VALUE_N_9       | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-9                          | float          | RO  | 0       | 46727          |
| V INTERRUPTION_YEAR_N_9        | Voltage Interruption Year @ n-9                                                                            | unsigned short | RO  | 0       | 46729          |
| V INTERRUPTION_MONTH_N_9       | Voltage Interruption Month @ n-9                                                                           | unsigned short | RO  | 0       | 46730          |
| V INTERRUPTION_DAY_N_9         | Voltage Interruption Day @ n-9                                                                             | unsigned short | RO  | 0       | 46731          |
| V INTERRUPTION_HOUR_N_9        | Voltage Interruption Hour @ n-9                                                                            | unsigned short | RO  | 0       | 46732          |
| V INTERRUPTION_MINUTE_N_9      | Voltage Interruption Minute @ n-9                                                                          | unsigned short | RO  | 0       | 46733          |
| V INTERRUPTION_SECOND_N_9      | Voltage Interruption Second @ n-9                                                                          | unsigned short | RO  | 0       | 46734          |
| V INTERRUPTION_DURATION_N_9    | Voltage Interruption Duration [ms] @ n-9                                                                   | unsigned short | RO  | 0       | 46735          |
| V INTERRUPTION_QUERY_N_9       | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46736          |
| V INTERRUPTION_VALUE_EEPROM    | Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") EEPROM data                    | float          | RO  | 0       | 46737          |
| V INTERRUPTION_YEAR_EEPROM     | Voltage Interruption Year EEPROM data                                                                      | unsigned short | RO  | 0       | 46739          |
| V INTERRUPTION_MONTH_EEPROM    | Voltage Interruption Month EEPROM data                                                                     | unsigned short | RO  | 0       | 46740          |
| V INTERRUPTION_DAY_EEPROM      | Voltage Interruption Day EEPROM data                                                                       | unsigned short | RO  | 0       | 46741          |
| V INTERRUPTION_HOUR_EEPROM     | Voltage Interruption Hour EEPROM data                                                                      | unsigned short | RO  | 0       | 46742          |
| V INTERRUPTION_MINUTE_EEPROM   | Voltage Interruption Minute EEPROM data                                                                    | unsigned short | RO  | 0       | 46743          |
| V INTERRUPTION_SECOND_EEPROM   | Voltage Interruption Second EEPROM data                                                                    | unsigned short | RO  | 0       | 46744          |
| V INTERRUPTION_DURATION_EEPROM | Voltage Interruption Duration [ms] EEPROM data                                                             | unsigned short | RO  | 0       | 46745          |
| V INTERRUPTION_QUERY_EEPROM    | // Voltage Interruption Type:// 0: ND// 1: V L1N// 2: V L2N// 3: V L3N// 4: V L1L2// 5: V L2L3// 6: V L3L1 | unsigned short | RO  | 0       | 46746          |
| V FLICKER_VALUE_N_0            | Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-0                               | float          | RO  | 0       | 46747          |
| V FLICKER_YEAR_N_0             | Voltage Flicker Year @ n-0                                                                                 | unsigned short | RO  | 0       | 46749          |
| V FLICKER_MONTH_N_0            | Voltage Flicker Month @ n-0                                                                                | unsigned short | RO  | 0       | 46750          |
| V FLICKER_DAY_N_0              | Voltage Flicker Day @ n-0                                                                                  | unsigned short | RO  | 0       | 46751          |
| V FLICKER_HOUR_N_0             | Voltage Flicker Hour @ n-0                                                                                 | unsigned short | RO  | 0       | 46752          |



- RO: Read only
- WO: Write only
- R/W: Read and write

EMT130\_MR Rev0





R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

Only FULL version

| Register Name          |                               | Description | Register Type | R/W | Default | Modbus Address |
|------------------------|-------------------------------|-------------|---------------|-----|---------|----------------|
| V_L1N Oscilloscope_26  | Star Voltage L1-N Sample #26  | float       | RO            | 0   | 46909   |                |
| V_L1N Oscilloscope_27  | Star Voltage L1-N Sample #27  | float       | RO            | 0   | 46911   |                |
| V_L1N Oscilloscope_28  | Star Voltage L1-N Sample #28  | float       | RO            | 0   | 46913   |                |
| V_L1N Oscilloscope_29  | Star Voltage L1-N Sample #29  | float       | RO            | 0   | 46915   |                |
| V_L1N Oscilloscope_30  | Star Voltage L1-N Sample #30  | float       | RO            | 0   | 46917   |                |
| V_L1N Oscilloscope_31  | Star Voltage L1-N Sample #31  | float       | RO            | 0   | 46919   |                |
| V_L1N Oscilloscope_32  | Star Voltage L1-N Sample #32  | float       | RO            | 0   | 46921   |                |
| V_L1N Oscilloscope_33  | Star Voltage L1-N Sample #33  | float       | RO            | 0   | 46923   |                |
| V_L1N Oscilloscope_34  | Star Voltage L1-N Sample #34  | float       | RO            | 0   | 46925   |                |
| V_L1N Oscilloscope_35  | Star Voltage L1-N Sample #35  | float       | RO            | 0   | 46927   |                |
| V_L1N Oscilloscope_36  | Star Voltage L1-N Sample #36  | float       | RO            | 0   | 46929   |                |
| V_L1N Oscilloscope_37  | Star Voltage L1-N Sample #37  | float       | RO            | 0   | 46931   |                |
| V_L1N Oscilloscope_38  | Star Voltage L1-N Sample #38  | float       | RO            | 0   | 46933   |                |
| V_L1N Oscilloscope_39  | Star Voltage L1-N Sample #39  | float       | RO            | 0   | 46935   |                |
| V_L1N Oscilloscope_40  | Star Voltage L1-N Sample #40  | float       | RO            | 0   | 46937   |                |
| V_L1N Oscilloscope_41  | Star Voltage L1-N Sample #41  | float       | RO            | 0   | 46939   |                |
| V_L1N Oscilloscope_42  | Star Voltage L1-N Sample #42  | float       | RO            | 0   | 46941   |                |
| V_L1N Oscilloscope_43  | Star Voltage L1-N Sample #43  | float       | RO            | 0   | 46943   |                |
| V_L1N Oscilloscope_44  | Star Voltage L1-N Sample #44  | float       | RO            | 0   | 46945   |                |
| V_L1N Oscilloscope_45  | Star Voltage L1-N Sample #45  | float       | RO            | 0   | 46947   |                |
| V_L1N Oscilloscope_46  | Star Voltage L1-N Sample #46  | float       | RO            | 0   | 46949   |                |
| V_L1N Oscilloscope_47  | Star Voltage L1-N Sample #47  | float       | RO            | 0   | 46951   |                |
| V_L1N Oscilloscope_48  | Star Voltage L1-N Sample #48  | float       | RO            | 0   | 46953   |                |
| V_L1N Oscilloscope_49  | Star Voltage L1-N Sample #49  | float       | RO            | 0   | 46955   |                |
| V_L1N Oscilloscope_50  | Star Voltage L1-N Sample #50  | float       | RO            | 0   | 46957   |                |
| V_L1N Oscilloscope_51  | Star Voltage L1-N Sample #51  | float       | RO            | 0   | 46959   |                |
| V_L1N Oscilloscope_52  | Star Voltage L1-N Sample #52  | float       | RO            | 0   | 46961   |                |
| V_L1N Oscilloscope_53  | Star Voltage L1-N Sample #53  | float       | RO            | 0   | 46963   |                |
| V_L1N Oscilloscope_54  | Star Voltage L1-N Sample #54  | float       | RO            | 0   | 46965   |                |
| V_L1N Oscilloscope_55  | Star Voltage L1-N Sample #55  | float       | RO            | 0   | 46967   |                |
| V_L1N Oscilloscope_56  | Star Voltage L1-N Sample #56  | float       | RO            | 0   | 46969   |                |
| V_L1N Oscilloscope_57  | Star Voltage L1-N Sample #57  | float       | RO            | 0   | 46971   |                |
| V_L1N Oscilloscope_58  | Star Voltage L1-N Sample #58  | float       | RO            | 0   | 46973   |                |
| V_L1N Oscilloscope_59  | Star Voltage L1-N Sample #59  | float       | RO            | 0   | 46975   |                |
| V_L1N Oscilloscope_60  | Star Voltage L1-N Sample #60  | float       | RO            | 0   | 46977   |                |
| V_L1N Oscilloscope_61  | Star Voltage L1-N Sample #61  | float       | RO            | 0   | 46979   |                |
| V_L1N Oscilloscope_62  | Star Voltage L1-N Sample #62  | float       | RO            | 0   | 46981   |                |
| V_L1N Oscilloscope_63  | Star Voltage L1-N Sample #63  | float       | RO            | 0   | 46983   |                |
| V_L1N Oscilloscope_64  | Star Voltage L1-N Sample #64  | float       | RO            | 0   | 46985   |                |
| V_L1N Oscilloscope_65  | Star Voltage L1-N Sample #65  | float       | RO            | 0   | 46987   |                |
| V_L1N Oscilloscope_66  | Star Voltage L1-N Sample #66  | float       | RO            | 0   | 46989   |                |
| V_L1N Oscilloscope_67  | Star Voltage L1-N Sample #67  | float       | RO            | 0   | 46991   |                |
| V_L1N Oscilloscope_68  | Star Voltage L1-N Sample #68  | float       | RO            | 0   | 46993   |                |
| V_L1N Oscilloscope_69  | Star Voltage L1-N Sample #69  | float       | RO            | 0   | 46995   |                |
| V_L1N Oscilloscope_70  | Star Voltage L1-N Sample #70  | float       | RO            | 0   | 46997   |                |
| V_L1N Oscilloscope_71  | Star Voltage L1-N Sample #71  | float       | RO            | 0   | 46999   |                |
| V_L1N Oscilloscope_72  | Star Voltage L1-N Sample #72  | float       | RO            | 0   | 47001   |                |
| V_L1N Oscilloscope_73  | Star Voltage L1-N Sample #73  | float       | RO            | 0   | 47003   |                |
| V_L1N Oscilloscope_74  | Star Voltage L1-N Sample #74  | float       | RO            | 0   | 47005   |                |
| V_L1N Oscilloscope_75  | Star Voltage L1-N Sample #75  | float       | RO            | 0   | 47007   |                |
| V_L1N Oscilloscope_76  | Star Voltage L1-N Sample #76  | float       | RO            | 0   | 47009   |                |
| V_L1N Oscilloscope_77  | Star Voltage L1-N Sample #77  | float       | RO            | 0   | 47011   |                |
| V_L1N Oscilloscope_78  | Star Voltage L1-N Sample #78  | float       | RO            | 0   | 47013   |                |
| V_L1N Oscilloscope_79  | Star Voltage L1-N Sample #79  | float       | RO            | 0   | 47015   |                |
| V_L1N Oscilloscope_80  | Star Voltage L1-N Sample #80  | float       | RO            | 0   | 47017   |                |
| V_L1N Oscilloscope_81  | Star Voltage L1-N Sample #81  | float       | RO            | 0   | 47019   |                |
| V_L1N Oscilloscope_82  | Star Voltage L1-N Sample #82  | float       | RO            | 0   | 47021   |                |
| V_L1N Oscilloscope_83  | Star Voltage L1-N Sample #83  | float       | RO            | 0   | 47023   |                |
| V_L1N Oscilloscope_84  | Star Voltage L1-N Sample #84  | float       | RO            | 0   | 47025   |                |
| V_L1N Oscilloscope_85  | Star Voltage L1-N Sample #85  | float       | RO            | 0   | 47027   |                |
| V_L1N Oscilloscope_86  | Star Voltage L1-N Sample #86  | float       | RO            | 0   | 47029   |                |
| V_L1N Oscilloscope_87  | Star Voltage L1-N Sample #87  | float       | RO            | 0   | 47031   |                |
| V_L1N Oscilloscope_88  | Star Voltage L1-N Sample #88  | float       | RO            | 0   | 47033   |                |
| V_L1N Oscilloscope_89  | Star Voltage L1-N Sample #89  | float       | RO            | 0   | 47035   |                |
| V_L1N Oscilloscope_90  | Star Voltage L1-N Sample #90  | float       | RO            | 0   | 47037   |                |
| V_L1N Oscilloscope_91  | Star Voltage L1-N Sample #91  | float       | RO            | 0   | 47039   |                |
| V_L1N Oscilloscope_92  | Star Voltage L1-N Sample #92  | float       | RO            | 0   | 47041   |                |
| V_L1N Oscilloscope_93  | Star Voltage L1-N Sample #93  | float       | RO            | 0   | 47043   |                |
| V_L1N Oscilloscope_94  | Star Voltage L1-N Sample #94  | float       | RO            | 0   | 47045   |                |
| V_L1N Oscilloscope_95  | Star Voltage L1-N Sample #95  | float       | RO            | 0   | 47047   |                |
| V_L1N Oscilloscope_96  | Star Voltage L1-N Sample #96  | float       | RO            | 0   | 47049   |                |
| V_L1N Oscilloscope_97  | Star Voltage L1-N Sample #97  | float       | RO            | 0   | 47051   |                |
| V_L1N Oscilloscope_98  | Star Voltage L1-N Sample #98  | float       | RO            | 0   | 47053   |                |
| V_L1N Oscilloscope_99  | Star Voltage L1-N Sample #99  | float       | RO            | 0   | 47055   |                |
| V_L1N Oscilloscope_100 | Star Voltage L1-N Sample #100 | float       | RO            | 0   | 47057   |                |
| V_L1N Oscilloscope_101 | Star Voltage L1-N Sample #101 | float       | RO            | 0   | 47059   |                |
| V_L1N Oscilloscope_102 | Star Voltage L1-N Sample #102 | float       | RO            | 0   | 47061   |                |
| V_L1N Oscilloscope_103 | Star Voltage L1-N Sample #103 | float       | RO            | 0   | 47063   |                |
| V_L1N Oscilloscope_104 | Star Voltage L1-N Sample #104 | float       | RO            | 0   | 47065   |                |
| V_L1N Oscilloscope_105 | Star Voltage L1-N Sample #105 | float       | RO            | 0   | 47067   |                |
| V_L1N Oscilloscope_106 | Star Voltage L1-N Sample #106 | float       | RO            | 0   | 47069   |                |
| V_L1N Oscilloscope_107 | Star Voltage L1-N Sample #107 | float       | RO            | 0   | 47071   |                |
| V_L1N Oscilloscope_108 | Star Voltage L1-N Sample #108 | float       | RO            | 0   | 47073   |                |
| V_L1N Oscilloscope_109 | Star Voltage L1-N Sample #109 | float       | RO            | 0   | 47075   |                |
| V_L1N Oscilloscope_110 | Star Voltage L1-N Sample #110 | float       | RO            | 0   | 47077   |                |
| V_L1N Oscilloscope_111 | Star Voltage L1-N Sample #111 | float       | RO            | 0   | 47079   |                |
| V_L1N Oscilloscope_112 | Star Voltage L1-N Sample #112 | float       | RO            | 0   | 47081   |                |
| V_L1N Oscilloscope_113 | Star Voltage L1-N Sample #113 | float       | RO            | 0   | 47083   |                |
| V_L1N Oscilloscope_114 | Star Voltage L1-N Sample #114 | float       | RO            | 0   | 47085   |                |
| V_L1N Oscilloscope_115 | Star Voltage L1-N Sample #115 | float       | RO            | 0   | 47087   |                |
| V_L1N Oscilloscope_116 | Star Voltage L1-N Sample #116 | float       | RO            | 0   | 47089   |                |
| V_L1N Oscilloscope_117 | Star Voltage L1-N Sample #117 | float       | RO            | 0   | 47091   |                |
| V_L1N Oscilloscope_118 | Star Voltage L1-N Sample #118 | float       | RO            | 0   | 47093   |                |
| V_L1N Oscilloscope_119 | Star Voltage L1-N Sample #119 | float       | RO            | 0   | 47095   |                |
| V_L1N Oscilloscope_120 | Star Voltage L1-N Sample #120 | float       | RO            | 0   | 47097   |                |
| V_L1N Oscilloscope_121 | Star Voltage L1-N Sample #121 | float       | RO            | 0   | 47099   |                |
| V_L1N Oscilloscope_122 | Star Voltage L1-N Sample #122 | float       | RO            | 0   | 47101   |                |
| V_L1N Oscilloscope_123 | Star Voltage L1-N Sample #123 | float       | RO            | 0   | 47103   |                |
| V_L1N Oscilloscope_124 | Star Voltage L1-N Sample #124 | float       | RO            | 0   | 47105   |                |
| V_L1N Oscilloscope_125 | Star Voltage L1-N Sample #125 | float       | RO            | 0   | 47107   |                |
| V_L1N Oscilloscope_126 | Star Voltage L1-N Sample #126 | float       | RO            | 0   | 47109   |                |
| V_L1N Oscilloscope_127 | Star Voltage L1-N Sample #127 | float       | RO            | 0   | 47111   |                |
| V_L2N Oscilloscope_0   | Star Voltage L2-N Sample #0   | float       | RO            | 0   | 47113   |                |
| V_L2N Oscilloscope_1   | Star Voltage L2-N Sample #1   | float       | RO            | 0   | 47115   |                |
| V_L2N Oscilloscope_2   | Star Voltage L2-N Sample #2   | float       | RO            | 0   | 47117   |                |
| V_L2N Oscilloscope_3   | Star Voltage L2-N Sample #3   | float       | RO            | 0   | 47119   |                |
| V_L2N Oscilloscope_4   | Star Voltage L2-N Sample #4   | float       | RO            | 0   | 47121   |                |
| V_L2N Oscilloscope_5   | Star Voltage L2-N Sample #5   | float       | RO            | 0   | 47123   |                |
| V_L2N Oscilloscope_6   | Star Voltage L2-N Sample #6   | float       | RO            | 0   | 47125   |                |
| V_L2N Oscilloscope_7   | Star Voltage L2-N Sample #7   | float       | RO            | 0   | 47127   |                |
| V_L2N Oscilloscope_8   | Star Voltage L2-N Sample #8   | float       | RO            | 0   | 47129   |                |
| V_L2N Oscilloscope_9   | Star Voltage L2-N Sample #9   | float       | RO            | 0   | 47131   |                |
| V_L2N Oscilloscope_10  | Star Voltage L2-N Sample #10  | float       | RO            | 0   | 47133   |                |
| V_L2N Oscilloscope_11  | Star Voltage L2-N Sample #11  | float       | RO            | 0   | 47135   |                |
| V_L2N Oscilloscope_12  | Star Voltage L2-N Sample #12  | float       | RO            | 0   | 47137   |                |
| V_L2N Oscilloscope_13  | Star Voltage L2-N Sample #13  | float       | RO            | 0   | 47139   |                |
| V_L2N Oscilloscope_14  | Star Voltage L2-N Sample #14  | float       | RO            | 0   | 47141   |                |
| V_L2N Oscilloscope_15  | Star Voltage L2-N Sample #15  | float       | RO            | 0   | 47143   |                |
| V_L2N Oscilloscope_16  | Star Voltage L2-N Sample #16  | float       | RO            | 0   | 47145   |                |
| V_L2N Oscilloscope_17  | Star Voltage L2-N Sample #17  | float       | RO            | 0   | 47147   |                |
| V_L2N Oscilloscope_18  | Star Voltage L2-N Sample #18  | float       | RO            | 0   | 47149   |                |



R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

Only FULL version

| Register Name          |                               | Description | Register Type | R/W | Default | Modbus Address |
|------------------------|-------------------------------|-------------|---------------|-----|---------|----------------|
| V_L2N_Oscilloscope_19  | Star Voltage L2-N Sample #19  | float       | RO            | 0   | 47151   |                |
| V_L2N_Oscilloscope_20  | Star Voltage L2-N Sample #20  | float       | RO            | 0   | 47153   |                |
| V_L2N_Oscilloscope_21  | Star Voltage L2-N Sample #21  | float       | RO            | 0   | 47155   |                |
| V_L2N_Oscilloscope_22  | Star Voltage L2-N Sample #22  | float       | RO            | 0   | 47157   |                |
| V_L2N_Oscilloscope_23  | Star Voltage L2-N Sample #23  | float       | RO            | 0   | 47159   |                |
| V_L2N_Oscilloscope_24  | Star Voltage L2-N Sample #24  | float       | RO            | 0   | 47161   |                |
| V_L2N_Oscilloscope_25  | Star Voltage L2-N Sample #25  | float       | RO            | 0   | 47163   |                |
| V_L2N_Oscilloscope_26  | Star Voltage L2-N Sample #26  | float       | RO            | 0   | 47165   |                |
| V_L2N_Oscilloscope_27  | Star Voltage L2-N Sample #27  | float       | RO            | 0   | 47167   |                |
| V_L2N_Oscilloscope_28  | Star Voltage L2-N Sample #28  | float       | RO            | 0   | 47169   |                |
| V_L2N_Oscilloscope_29  | Star Voltage L2-N Sample #29  | float       | RO            | 0   | 47171   |                |
| V_L2N_Oscilloscope_30  | Star Voltage L2-N Sample #30  | float       | RO            | 0   | 47173   |                |
| V_L2N_Oscilloscope_31  | Star Voltage L2-N Sample #31  | float       | RO            | 0   | 47175   |                |
| V_L2N_Oscilloscope_32  | Star Voltage L2-N Sample #32  | float       | RO            | 0   | 47177   |                |
| V_L2N_Oscilloscope_33  | Star Voltage L2-N Sample #33  | float       | RO            | 0   | 47179   |                |
| V_L2N_Oscilloscope_34  | Star Voltage L2-N Sample #34  | float       | RO            | 0   | 47181   |                |
| V_L2N_Oscilloscope_35  | Star Voltage L2-N Sample #35  | float       | RO            | 0   | 47183   |                |
| V_L2N_Oscilloscope_36  | Star Voltage L2-N Sample #36  | float       | RO            | 0   | 47185   |                |
| V_L2N_Oscilloscope_37  | Star Voltage L2-N Sample #37  | float       | RO            | 0   | 47187   |                |
| V_L2N_Oscilloscope_38  | Star Voltage L2-N Sample #38  | float       | RO            | 0   | 47189   |                |
| V_L2N_Oscilloscope_39  | Star Voltage L2-N Sample #39  | float       | RO            | 0   | 47191   |                |
| V_L2N_Oscilloscope_40  | Star Voltage L2-N Sample #40  | float       | RO            | 0   | 47193   |                |
| V_L2N_Oscilloscope_41  | Star Voltage L2-N Sample #41  | float       | RO            | 0   | 47195   |                |
| V_L2N_Oscilloscope_42  | Star Voltage L2-N Sample #42  | float       | RO            | 0   | 47197   |                |
| V_L2N_Oscilloscope_43  | Star Voltage L2-N Sample #43  | float       | RO            | 0   | 47199   |                |
| V_L2N_Oscilloscope_44  | Star Voltage L2-N Sample #44  | float       | RO            | 0   | 47201   |                |
| V_L2N_Oscilloscope_45  | Star Voltage L2-N Sample #45  | float       | RO            | 0   | 47203   |                |
| V_L2N_Oscilloscope_46  | Star Voltage L2-N Sample #46  | float       | RO            | 0   | 47205   |                |
| V_L2N_Oscilloscope_47  | Star Voltage L2-N Sample #47  | float       | RO            | 0   | 47207   |                |
| V_L2N_Oscilloscope_48  | Star Voltage L2-N Sample #48  | float       | RO            | 0   | 47209   |                |
| V_L2N_Oscilloscope_49  | Star Voltage L2-N Sample #49  | float       | RO            | 0   | 47211   |                |
| V_L2N_Oscilloscope_50  | Star Voltage L2-N Sample #50  | float       | RO            | 0   | 47213   |                |
| V_L2N_Oscilloscope_51  | Star Voltage L2-N Sample #51  | float       | RO            | 0   | 47215   |                |
| V_L2N_Oscilloscope_52  | Star Voltage L2-N Sample #52  | float       | RO            | 0   | 47217   |                |
| V_L2N_Oscilloscope_53  | Star Voltage L2-N Sample #53  | float       | RO            | 0   | 47219   |                |
| V_L2N_Oscilloscope_54  | Star Voltage L2-N Sample #54  | float       | RO            | 0   | 47221   |                |
| V_L2N_Oscilloscope_55  | Star Voltage L2-N Sample #55  | float       | RO            | 0   | 47223   |                |
| V_L2N_Oscilloscope_56  | Star Voltage L2-N Sample #56  | float       | RO            | 0   | 47225   |                |
| V_L2N_Oscilloscope_57  | Star Voltage L2-N Sample #57  | float       | RO            | 0   | 47227   |                |
| V_L2N_Oscilloscope_58  | Star Voltage L2-N Sample #58  | float       | RO            | 0   | 47229   |                |
| V_L2N_Oscilloscope_59  | Star Voltage L2-N Sample #59  | float       | RO            | 0   | 47231   |                |
| V_L2N_Oscilloscope_60  | Star Voltage L2-N Sample #60  | float       | RO            | 0   | 47233   |                |
| V_L2N_Oscilloscope_61  | Star Voltage L2-N Sample #61  | float       | RO            | 0   | 47235   |                |
| V_L2N_Oscilloscope_62  | Star Voltage L2-N Sample #62  | float       | RO            | 0   | 47237   |                |
| V_L2N_Oscilloscope_63  | Star Voltage L2-N Sample #63  | float       | RO            | 0   | 47239   |                |
| V_L2N_Oscilloscope_64  | Star Voltage L2-N Sample #64  | float       | RO            | 0   | 47241   |                |
| V_L2N_Oscilloscope_65  | Star Voltage L2-N Sample #65  | float       | RO            | 0   | 47243   |                |
| V_L2N_Oscilloscope_66  | Star Voltage L2-N Sample #66  | float       | RO            | 0   | 47245   |                |
| V_L2N_Oscilloscope_67  | Star Voltage L2-N Sample #67  | float       | RO            | 0   | 47247   |                |
| V_L2N_Oscilloscope_68  | Star Voltage L2-N Sample #68  | float       | RO            | 0   | 47249   |                |
| V_L2N_Oscilloscope_69  | Star Voltage L2-N Sample #69  | float       | RO            | 0   | 47251   |                |
| V_L2N_Oscilloscope_70  | Star Voltage L2-N Sample #70  | float       | RO            | 0   | 47253   |                |
| V_L2N_Oscilloscope_71  | Star Voltage L2-N Sample #71  | float       | RO            | 0   | 47255   |                |
| V_L2N_Oscilloscope_72  | Star Voltage L2-N Sample #72  | float       | RO            | 0   | 47257   |                |
| V_L2N_Oscilloscope_73  | Star Voltage L2-N Sample #73  | float       | RO            | 0   | 47259   |                |
| V_L2N_Oscilloscope_74  | Star Voltage L2-N Sample #74  | float       | RO            | 0   | 47261   |                |
| V_L2N_Oscilloscope_75  | Star Voltage L2-N Sample #75  | float       | RO            | 0   | 47263   |                |
| V_L2N_Oscilloscope_76  | Star Voltage L2-N Sample #76  | float       | RO            | 0   | 47265   |                |
| V_L2N_Oscilloscope_77  | Star Voltage L2-N Sample #77  | float       | RO            | 0   | 47267   |                |
| V_L2N_Oscilloscope_78  | Star Voltage L2-N Sample #78  | float       | RO            | 0   | 47269   |                |
| V_L2N_Oscilloscope_79  | Star Voltage L2-N Sample #79  | float       | RO            | 0   | 47271   |                |
| V_L2N_Oscilloscope_80  | Star Voltage L2-N Sample #80  | float       | RO            | 0   | 47273   |                |
| V_L2N_Oscilloscope_81  | Star Voltage L2-N Sample #81  | float       | RO            | 0   | 47275   |                |
| V_L2N_Oscilloscope_82  | Star Voltage L2-N Sample #82  | float       | RO            | 0   | 47277   |                |
| V_L2N_Oscilloscope_83  | Star Voltage L2-N Sample #83  | float       | RO            | 0   | 47279   |                |
| V_L2N_Oscilloscope_84  | Star Voltage L2-N Sample #84  | float       | RO            | 0   | 47281   |                |
| V_L2N_Oscilloscope_85  | Star Voltage L2-N Sample #85  | float       | RO            | 0   | 47283   |                |
| V_L2N_Oscilloscope_86  | Star Voltage L2-N Sample #86  | float       | RO            | 0   | 47285   |                |
| V_L2N_Oscilloscope_87  | Star Voltage L2-N Sample #87  | float       | RO            | 0   | 47287   |                |
| V_L2N_Oscilloscope_88  | Star Voltage L2-N Sample #88  | float       | RO            | 0   | 47289   |                |
| V_L2N_Oscilloscope_89  | Star Voltage L2-N Sample #89  | float       | RO            | 0   | 47291   |                |
| V_L2N_Oscilloscope_90  | Star Voltage L2-N Sample #90  | float       | RO            | 0   | 47293   |                |
| V_L2N_Oscilloscope_91  | Star Voltage L2-N Sample #91  | float       | RO            | 0   | 47295   |                |
| V_L2N_Oscilloscope_92  | Star Voltage L2-N Sample #92  | float       | RO            | 0   | 47297   |                |
| V_L2N_Oscilloscope_93  | Star Voltage L2-N Sample #93  | float       | RO            | 0   | 47299   |                |
| V_L2N_Oscilloscope_94  | Star Voltage L2-N Sample #94  | float       | RO            | 0   | 47301   |                |
| V_L2N_Oscilloscope_95  | Star Voltage L2-N Sample #95  | float       | RO            | 0   | 47303   |                |
| V_L2N_Oscilloscope_96  | Star Voltage L2-N Sample #96  | float       | RO            | 0   | 47305   |                |
| V_L2N_Oscilloscope_97  | Star Voltage L2-N Sample #97  | float       | RO            | 0   | 47307   |                |
| V_L2N_Oscilloscope_98  | Star Voltage L2-N Sample #98  | float       | RO            | 0   | 47309   |                |
| V_L2N_Oscilloscope_99  | Star Voltage L2-N Sample #99  | float       | RO            | 0   | 47311   |                |
| V_L2N_Oscilloscope_100 | Star Voltage L2-N Sample #100 | float       | RO            | 0   | 47313   |                |
| V_L2N_Oscilloscope_101 | Star Voltage L2-N Sample #101 | float       | RO            | 0   | 47315   |                |
| V_L2N_Oscilloscope_102 | Star Voltage L2-N Sample #102 | float       | RO            | 0   | 47317   |                |
| V_L2N_Oscilloscope_103 | Star Voltage L2-N Sample #103 | float       | RO            | 0   | 47319   |                |
| V_L2N_Oscilloscope_104 | Star Voltage L2-N Sample #104 | float       | RO            | 0   | 47321   |                |
| V_L2N_Oscilloscope_105 | Star Voltage L2-N Sample #105 | float       | RO            | 0   | 47323   |                |
| V_L2N_Oscilloscope_106 | Star Voltage L2-N Sample #106 | float       | RO            | 0   | 47325   |                |
| V_L2N_Oscilloscope_107 | Star Voltage L2-N Sample #107 | float       | RO            | 0   | 47327   |                |
| V_L2N_Oscilloscope_108 | Star Voltage L2-N Sample #108 | float       | RO            | 0   | 47329   |                |
| V_L2N_Oscilloscope_109 | Star Voltage L2-N Sample #109 | float       | RO            | 0   | 47331   |                |
| V_L2N_Oscilloscope_110 | Star Voltage L2-N Sample #110 | float       | RO            | 0   | 47333   |                |
| V_L2N_Oscilloscope_111 | Star Voltage L2-N Sample #111 | float       | RO            | 0   | 47335   |                |
| V_L2N_Oscilloscope_112 | Star Voltage L2-N Sample #112 | float       | RO            | 0   | 47337   |                |
| V_L2N_Oscilloscope_113 | Star Voltage L2-N Sample #113 | float       | RO            | 0   | 47339   |                |
| V_L2N_Oscilloscope_114 | Star Voltage L2-N Sample #114 | float       | RO            | 0   | 47341   |                |
| V_L2N_Oscilloscope_115 | Star Voltage L2-N Sample #115 | float       | RO            | 0   | 47343   |                |
| V_L2N_Oscilloscope_116 | Star Voltage L2-N Sample #116 | float       | RO            | 0   | 47345   |                |
| V_L2N_Oscilloscope_117 | Star Voltage L2-N Sample #117 | float       | RO            | 0   | 47347   |                |
| V_L2N_Oscilloscope_118 | Star Voltage L2-N Sample #118 | float       | RO            | 0   | 47349   |                |
| V_L2N_Oscilloscope_119 | Star Voltage L2-N Sample #119 | float       | RO            | 0   | 47351   |                |
| V_L2N_Oscilloscope_120 | Star Voltage L2-N Sample #120 | float       | RO            | 0   | 47353   |                |
| V_L2N_Oscilloscope_121 | Star Voltage L2-N Sample #121 | float       | RO            | 0   | 47355   |                |
| V_L2N_Oscilloscope_122 | Star Voltage L2-N Sample #122 | float       | RO            | 0   | 47357   |                |
| V_L2N_Oscilloscope_123 | Star Voltage L2-N Sample #123 | float       | RO            | 0   | 47359   |                |
| V_L2N_Oscilloscope_124 | Star Voltage L2-N Sample #124 | float       | RO            | 0   | 47361   |                |
| V_L2N_Oscilloscope_125 | Star Voltage L2-N Sample #125 | float       | RO            | 0   | 47363   |                |
| V_L2N_Oscilloscope_126 | Star Voltage L2-N Sample #126 | float       | RO            | 0   | 47365   |                |
| V_L2N_Oscilloscope_127 | Star Voltage L2-N Sample #127 | float       | RO            | 0   | 47367   |                |
| V_L3N_Oscilloscope_0   | Star Voltage L3-N Sample #0   | float       | RO            | 0   | 47369   |                |
| V_L3N_Oscilloscope_1   | Star Voltage L3-N Sample #1   | float       | RO            | 0   | 47371   |                |
| V_L3N_Oscilloscope_2   | Star Voltage L3-N Sample #2   | float       | RO            | 0   | 47373   |                |
| V_L3N_Oscilloscope_3   | Star Voltage L3-N Sample #3   | float       | RO            | 0   | 47375   |                |
| V_L3N_Oscilloscope_4   | Star Voltage L3-N Sample #4   | float       | RO            | 0   | 47377   |                |
| V_L3N_Oscilloscope_5   | Star Voltage L3-N Sample #5   | float       | RO            | 0   | 47379   |                |
| V_L3N_Oscilloscope_6   | Star Voltage L3-N Sample #6   | float       | RO            | 0   | 47381   |                |
| V_L3N_Oscilloscope_7   | Star Voltage L3-N Sample #7   | float       | RO            | 0   | 47383   |                |
| V_L3N_Oscilloscope_8   | Star Voltage L3-N Sample #8   | float       | RO            | 0   | 47385   |                |
| V_L3N_Oscilloscope_9   | Star Voltage L3-N Sample #9   | float       | RO            | 0   | 47387   |                |
| V_L3N_Oscilloscope_10  | Star Voltage L3-N Sample #10  | float       | RO            | 0   | 47389   |                |
| V_L3N_Oscilloscope_11  | Star Voltage L3-N Sample #11  | float       | RO            | 0   | 47391   |                |

R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

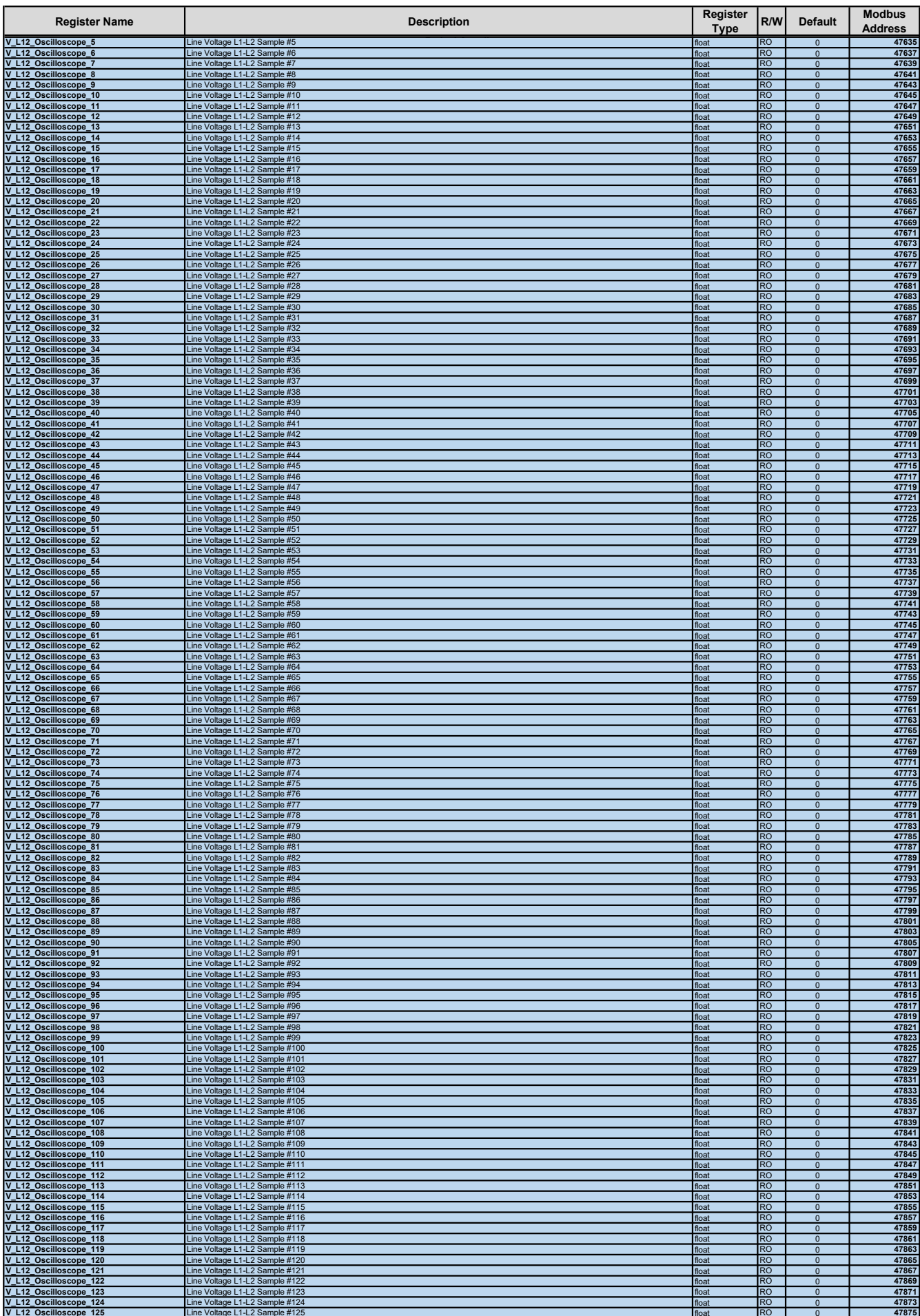
Only FULL version

| Register Name          |                               | Description | Register Type | R/W | Default | Modbus Address |
|------------------------|-------------------------------|-------------|---------------|-----|---------|----------------|
| V_L3N Oscilloscope_12  | Star Voltage L3-N Sample #12  |             | float         | RO  | 0       | 47393          |
| V_L3N Oscilloscope_13  | Star Voltage L3-N Sample #13  |             | float         | RO  | 0       | 47395          |
| V_L3N Oscilloscope_14  | Star Voltage L3-N Sample #14  |             | float         | RO  | 0       | 47397          |
| V_L3N Oscilloscope_15  | Star Voltage L3-N Sample #15  |             | float         | RO  | 0       | 47399          |
| V_L3N Oscilloscope_16  | Star Voltage L3-N Sample #16  |             | float         | RO  | 0       | 47401          |
| V_L3N Oscilloscope_17  | Star Voltage L3-N Sample #17  |             | float         | RO  | 0       | 47403          |
| V_L3N Oscilloscope_18  | Star Voltage L3-N Sample #18  |             | float         | RO  | 0       | 47405          |
| V_L3N Oscilloscope_19  | Star Voltage L3-N Sample #19  |             | float         | RO  | 0       | 47407          |
| V_L3N Oscilloscope_20  | Star Voltage L3-N Sample #20  |             | float         | RO  | 0       | 47409          |
| V_L3N Oscilloscope_21  | Star Voltage L3-N Sample #21  |             | float         | RO  | 0       | 47411          |
| V_L3N Oscilloscope_22  | Star Voltage L3-N Sample #22  |             | float         | RO  | 0       | 47413          |
| V_L3N Oscilloscope_23  | Star Voltage L3-N Sample #23  |             | float         | RO  | 0       | 47415          |
| V_L3N Oscilloscope_24  | Star Voltage L3-N Sample #24  |             | float         | RO  | 0       | 47417          |
| V_L3N Oscilloscope_25  | Star Voltage L3-N Sample #25  |             | float         | RO  | 0       | 47419          |
| V_L3N Oscilloscope_26  | Star Voltage L3-N Sample #26  |             | float         | RO  | 0       | 47421          |
| V_L3N Oscilloscope_27  | Star Voltage L3-N Sample #27  |             | float         | RO  | 0       | 47423          |
| V_L3N Oscilloscope_28  | Star Voltage L3-N Sample #28  |             | float         | RO  | 0       | 47425          |
| V_L3N Oscilloscope_29  | Star Voltage L3-N Sample #29  |             | float         | RO  | 0       | 47427          |
| V_L3N Oscilloscope_30  | Star Voltage L3-N Sample #30  |             | float         | RO  | 0       | 47429          |
| V_L3N Oscilloscope_31  | Star Voltage L3-N Sample #31  |             | float         | RO  | 0       | 47431          |
| V_L3N Oscilloscope_32  | Star Voltage L3-N Sample #32  |             | float         | RO  | 0       | 47433          |
| V_L3N Oscilloscope_33  | Star Voltage L3-N Sample #33  |             | float         | RO  | 0       | 47435          |
| V_L3N Oscilloscope_34  | Star Voltage L3-N Sample #34  |             | float         | RO  | 0       | 47437          |
| V_L3N Oscilloscope_35  | Star Voltage L3-N Sample #35  |             | float         | RO  | 0       | 47439          |
| V_L3N Oscilloscope_36  | Star Voltage L3-N Sample #36  |             | float         | RO  | 0       | 47441          |
| V_L3N Oscilloscope_37  | Star Voltage L3-N Sample #37  |             | float         | RO  | 0       | 47443          |
| V_L3N Oscilloscope_38  | Star Voltage L3-N Sample #38  |             | float         | RO  | 0       | 47445          |
| V_L3N Oscilloscope_39  | Star Voltage L3-N Sample #39  |             | float         | RO  | 0       | 47447          |
| V_L3N Oscilloscope_40  | Star Voltage L3-N Sample #40  |             | float         | RO  | 0       | 47449          |
| V_L3N Oscilloscope_41  | Star Voltage L3-N Sample #41  |             | float         | RO  | 0       | 47451          |
| V_L3N Oscilloscope_42  | Star Voltage L3-N Sample #42  |             | float         | RO  | 0       | 47453          |
| V_L3N Oscilloscope_43  | Star Voltage L3-N Sample #43  |             | float         | RO  | 0       | 47455          |
| V_L3N Oscilloscope_44  | Star Voltage L3-N Sample #44  |             | float         | RO  | 0       | 47457          |
| V_L3N Oscilloscope_45  | Star Voltage L3-N Sample #45  |             | float         | RO  | 0       | 47459          |
| V_L3N Oscilloscope_46  | Star Voltage L3-N Sample #46  |             | float         | RO  | 0       | 47461          |
| V_L3N Oscilloscope_47  | Star Voltage L3-N Sample #47  |             | float         | RO  | 0       | 47463          |
| V_L3N Oscilloscope_48  | Star Voltage L3-N Sample #48  |             | float         | RO  | 0       | 47465          |
| V_L3N Oscilloscope_49  | Star Voltage L3-N Sample #49  |             | float         | RO  | 0       | 47467          |
| V_L3N Oscilloscope_50  | Star Voltage L3-N Sample #50  |             | float         | RO  | 0       | 47469          |
| V_L3N Oscilloscope_51  | Star Voltage L3-N Sample #51  |             | float         | RO  | 0       | 47471          |
| V_L3N Oscilloscope_52  | Star Voltage L3-N Sample #52  |             | float         | RO  | 0       | 47473          |
| V_L3N Oscilloscope_53  | Star Voltage L3-N Sample #53  |             | float         | RO  | 0       | 47475          |
| V_L3N Oscilloscope_54  | Star Voltage L3-N Sample #54  |             | float         | RO  | 0       | 47477          |
| V_L3N Oscilloscope_55  | Star Voltage L3-N Sample #55  |             | float         | RO  | 0       | 47479          |
| V_L3N Oscilloscope_56  | Star Voltage L3-N Sample #56  |             | float         | RO  | 0       | 47481          |
| V_L3N Oscilloscope_57  | Star Voltage L3-N Sample #57  |             | float         | RO  | 0       | 47483          |
| V_L3N Oscilloscope_58  | Star Voltage L3-N Sample #58  |             | float         | RO  | 0       | 47485          |
| V_L3N Oscilloscope_59  | Star Voltage L3-N Sample #59  |             | float         | RO  | 0       | 47487          |
| V_L3N Oscilloscope_60  | Star Voltage L3-N Sample #60  |             | float         | RO  | 0       | 47489          |
| V_L3N Oscilloscope_61  | Star Voltage L3-N Sample #61  |             | float         | RO  | 0       | 47491          |
| V_L3N Oscilloscope_62  | Star Voltage L3-N Sample #62  |             | float         | RO  | 0       | 47493          |
| V_L3N Oscilloscope_63  | Star Voltage L3-N Sample #63  |             | float         | RO  | 0       | 47495          |
| V_L3N Oscilloscope_64  | Star Voltage L3-N Sample #64  |             | float         | RO  | 0       | 47497          |
| V_L3N Oscilloscope_65  | Star Voltage L3-N Sample #65  |             | float         | RO  | 0       | 47499          |
| V_L3N Oscilloscope_66  | Star Voltage L3-N Sample #66  |             | float         | RO  | 0       | 47501          |
| V_L3N Oscilloscope_67  | Star Voltage L3-N Sample #67  |             | float         | RO  | 0       | 47503          |
| V_L3N Oscilloscope_68  | Star Voltage L3-N Sample #68  |             | float         | RO  | 0       | 47505          |
| V_L3N Oscilloscope_69  | Star Voltage L3-N Sample #69  |             | float         | RO  | 0       | 47507          |
| V_L3N Oscilloscope_70  | Star Voltage L3-N Sample #70  |             | float         | RO  | 0       | 47509          |
| V_L3N Oscilloscope_71  | Star Voltage L3-N Sample #71  |             | float         | RO  | 0       | 47511          |
| V_L3N Oscilloscope_72  | Star Voltage L3-N Sample #72  |             | float         | RO  | 0       | 47513          |
| V_L3N Oscilloscope_73  | Star Voltage L3-N Sample #73  |             | float         | RO  | 0       | 47515          |
| V_L3N Oscilloscope_74  | Star Voltage L3-N Sample #74  |             | float         | RO  | 0       | 47517          |
| V_L3N Oscilloscope_75  | Star Voltage L3-N Sample #75  |             | float         | RO  | 0       | 47519          |
| V_L3N Oscilloscope_76  | Star Voltage L3-N Sample #76  |             | float         | RO  | 0       | 47521          |
| V_L3N Oscilloscope_77  | Star Voltage L3-N Sample #77  |             | float         | RO  | 0       | 47523          |
| V_L3N Oscilloscope_78  | Star Voltage L3-N Sample #78  |             | float         | RO  | 0       | 47525          |
| V_L3N Oscilloscope_79  | Star Voltage L3-N Sample #79  |             | float         | RO  | 0       | 47527          |
| V_L3N Oscilloscope_80  | Star Voltage L3-N Sample #80  |             | float         | RO  | 0       | 47529          |
| V_L3N Oscilloscope_81  | Star Voltage L3-N Sample #81  |             | float         | RO  | 0       | 47531          |
| V_L3N Oscilloscope_82  | Star Voltage L3-N Sample #82  |             | float         | RO  | 0       | 47533          |
| V_L3N Oscilloscope_83  | Star Voltage L3-N Sample #83  |             | float         | RO  | 0       | 47535          |
| V_L3N Oscilloscope_84  | Star Voltage L3-N Sample #84  |             | float         | RO  | 0       | 47537          |
| V_L3N Oscilloscope_85  | Star Voltage L3-N Sample #85  |             | float         | RO  | 0       | 47539          |
| V_L3N Oscilloscope_86  | Star Voltage L3-N Sample #86  |             | float         | RO  | 0       | 47541          |
| V_L3N Oscilloscope_87  | Star Voltage L3-N Sample #87  |             | float         | RO  | 0       | 47543          |
| V_L3N Oscilloscope_88  | Star Voltage L3-N Sample #88  |             | float         | RO  | 0       | 47545          |
| V_L3N Oscilloscope_89  | Star Voltage L3-N Sample #89  |             | float         | RO  | 0       | 47547          |
| V_L3N Oscilloscope_90  | Star Voltage L3-N Sample #90  |             | float         | RO  | 0       | 47549          |
| V_L3N Oscilloscope_91  | Star Voltage L3-N Sample #91  |             | float         | RO  | 0       | 47551          |
| V_L3N Oscilloscope_92  | Star Voltage L3-N Sample #92  |             | float         | RO  | 0       | 47553          |
| V_L3N Oscilloscope_93  | Star Voltage L3-N Sample #93  |             | float         | RO  | 0       | 47555          |
| V_L3N Oscilloscope_94  | Star Voltage L3-N Sample #94  |             | float         | RO  | 0       | 47557          |
| V_L3N Oscilloscope_95  | Star Voltage L3-N Sample #95  |             | float         | RO  | 0       | 47559          |
| V_L3N Oscilloscope_96  | Star Voltage L3-N Sample #96  |             | float         | RO  | 0       | 47561          |
| V_L3N Oscilloscope_97  | Star Voltage L3-N Sample #97  |             | float         | RO  | 0       | 47563          |
| V_L3N Oscilloscope_98  | Star Voltage L3-N Sample #98  |             | float         | RO  | 0       | 47565          |
| V_L3N Oscilloscope_99  | Star Voltage L3-N Sample #99  |             | float         | RO  | 0       | 47567          |
| V_L3N Oscilloscope_100 | Star Voltage L3-N Sample #100 |             | float         | RO  | 0       | 47569          |
| V_L3N Oscilloscope_101 | Star Voltage L3-N Sample #101 |             | float         | RO  | 0       | 47571          |
| V_L3N Oscilloscope_102 | Star Voltage L3-N Sample #102 |             | float         | RO  | 0       | 47573          |
| V_L3N Oscilloscope_103 | Star Voltage L3-N Sample #103 |             | float         | RO  | 0       | 47575          |
| V_L3N Oscilloscope_104 | Star Voltage L3-N Sample #104 |             | float         | RO  | 0       | 47577          |
| V_L3N Oscilloscope_105 | Star Voltage L3-N Sample #105 |             | float         | RO  | 0       | 47579          |
| V_L3N Oscilloscope_106 | Star Voltage L3-N Sample #106 |             | float         | RO  | 0       | 47581          |
| V_L3N Oscilloscope_107 | Star Voltage L3-N Sample #107 |             | float         | RO  | 0       | 47583          |
| V_L3N Oscilloscope_108 | Star Voltage L3-N Sample #108 |             | float         | RO  | 0       | 47585          |
| V_L3N Oscilloscope_109 | Star Voltage L3-N Sample #109 |             | float         | RO  | 0       | 47587          |
| V_L3N Oscilloscope_110 | Star Voltage L3-N Sample #110 |             | float         | RO  | 0       | 47589          |
| V_L3N Oscilloscope_111 | Star Voltage L3-N Sample #111 |             | float         | RO  | 0       | 47591          |
| V_L3N Oscilloscope_112 | Star Voltage L3-N Sample #112 |             | float         | RO  | 0       | 47593          |
| V_L3N Oscilloscope_113 | Star Voltage L3-N Sample #113 |             | float         | RO  | 0       | 47595          |
| V_L3N Oscilloscope_114 | Star Voltage L3-N Sample #114 |             | float         | RO  | 0       | 47597          |
| V_L3N Oscilloscope_115 | Star Voltage L3-N Sample #115 |             | float         | RO  | 0       | 47599          |
| V_L3N Oscilloscope_116 | Star Voltage L3-N Sample #116 |             | float         | RO  | 0       | 47601          |
| V_L3N Oscilloscope_117 | Star Voltage L3-N Sample #117 |             | float         | RO  | 0       | 47603          |
| V_L3N Oscilloscope_118 | Star Voltage L3-N Sample #118 |             | float         | RO  | 0       | 47605          |
| V_L3N Oscilloscope_119 | Star Voltage L3-N Sample #119 |             | float         | RO  | 0       | 47607          |
| V_L3N Oscilloscope_120 | Star Voltage L3-N Sample #120 |             | float         | RO  | 0       | 47609          |
| V_L3N Oscilloscope_121 | Star Voltage L3-N Sample #121 |             | float         | RO  | 0       | 47611          |
| V_L3N Oscilloscope_122 | Star Voltage L3-N Sample #122 |             | float         | RO  | 0       | 47613          |
| V_L3N Oscilloscope_123 | Star Voltage L3-N Sample #123 |             | float         | RO  | 0       | 47615          |
| V_L3N Oscilloscope_124 | Star Voltage L3-N Sample #124 |             | float         | RO  | 0       | 47617          |
| V_L3N Oscilloscope_125 | Star Voltage L3-N Sample #125 |             | float         | RO  | 0       | 47619          |
| V_L3N Oscilloscope_126 | Star Voltage L3-N Sample #126 |             | float         | RO  | 0       | 47621          |
| V_L3N Oscilloscope_127 | Star Voltage L3-N Sample #127 |             | float         | RO  | 0       | 47623          |
| V_L12 Oscilloscope_0   | Line Voltage L1-L2 Sample #0  |             | float         | RO  | 0       | 47625          |
| V_L12 Oscilloscope_1   | Line Voltage L1-L2 Sample #1  |             | float         | RO  | 0       | 47627          |
| V_L12 Oscilloscope_2   | Line Voltage L1-L2 Sample #2  |             | float         | RO  | 0       | 47629          |
| V_L12 Oscilloscope_3   | Line Voltage L1-L2 Sample #3  |             | float         | RO  | 0       | 47631          |
| V_L12 Oscilloscope_4   | Line Voltage L1-L2 Sample #4  |             | float         | RO  | 0       | 47633          |



- RO: Read only
- WO: Write only
- R/W: Read and write

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- RO: Read only
- WO: Write only
- R/W: Read and write

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| Register Name |                  | Description                    | Register Type | R/W | Default | Modbus Address |
|---------------|------------------|--------------------------------|---------------|-----|---------|----------------|
| V_L23         | Oscilloscope_119 | Line Voltage L2-L3 Sample #119 | float         | RO  | 0       | 48119          |
| V_L23         | Oscilloscope_120 | Line Voltage L2-L3 Sample #120 | float         | RO  | 0       | 48121          |
| V_L23         | Oscilloscope_121 | Line Voltage L2-L3 Sample #121 | float         | RO  | 0       | 48123          |
| V_L23         | Oscilloscope_122 | Line Voltage L2-L3 Sample #122 | float         | RO  | 0       | 48125          |
| V_L23         | Oscilloscope_123 | Line Voltage L2-L3 Sample #123 | float         | RO  | 0       | 48127          |
| V_L23         | Oscilloscope_124 | Line Voltage L2-L3 Sample #124 | float         | RO  | 0       | 48129          |
| V_L23         | Oscilloscope_125 | Line Voltage L2-L3 Sample #125 | float         | RO  | 0       | 48131          |
| V_L23         | Oscilloscope_126 | Line Voltage L2-L3 Sample #126 | float         | RO  | 0       | 48133          |
| V_L23         | Oscilloscope_127 | Line Voltage L2-L3 Sample #127 | float         | RO  | 0       | 48135          |
| V_L31         | Oscilloscope_0   | Line Voltage L3-L1 Sample #0   | float         | RO  | 0       | 48137          |
| V_L31         | Oscilloscope_1   | Line Voltage L3-L1 Sample #1   | float         | RO  | 0       | 48139          |
| V_L31         | Oscilloscope_2   | Line Voltage L3-L1 Sample #2   | float         | RO  | 0       | 48141          |
| V_L31         | Oscilloscope_3   | Line Voltage L3-L1 Sample #3   | float         | RO  | 0       | 48143          |
| V_L31         | Oscilloscope_4   | Line Voltage L3-L1 Sample #4   | float         | RO  | 0       | 48145          |
| V_L31         | Oscilloscope_5   | Line Voltage L3-L1 Sample #5   | float         | RO  | 0       | 48147          |
| V_L31         | Oscilloscope_6   | Line Voltage L3-L1 Sample #6   | float         | RO  | 0       | 48149          |
| V_L31         | Oscilloscope_7   | Line Voltage L3-L1 Sample #7   | float         | RO  | 0       | 48151          |
| V_L31         | Oscilloscope_8   | Line Voltage L3-L1 Sample #8   | float         | RO  | 0       | 48153          |
| V_L31         | Oscilloscope_9   | Line Voltage L3-L1 Sample #9   | float         | RO  | 0       | 48155          |
| V_L31         | Oscilloscope_10  | Line Voltage L3-L1 Sample #10  | float         | RO  | 0       | 48157          |
| V_L31         | Oscilloscope_11  | Line Voltage L3-L1 Sample #11  | float         | RO  | 0       | 48159          |
| V_L31         | Oscilloscope_12  | Line Voltage L3-L1 Sample #12  | float         | RO  | 0       | 48161          |
| V_L31         | Oscilloscope_13  | Line Voltage L3-L1 Sample #13  | float         | RO  | 0       | 48163          |
| V_L31         | Oscilloscope_14  | Line Voltage L3-L1 Sample #14  | float         | RO  | 0       | 48165          |
| V_L31         | Oscilloscope_15  | Line Voltage L3-L1 Sample #15  | float         | RO  | 0       | 48167          |
| V_L31         | Oscilloscope_16  | Line Voltage L3-L1 Sample #16  | float         | RO  | 0       | 48169          |
| V_L31         | Oscilloscope_17  | Line Voltage L3-L1 Sample #17  | float         | RO  | 0       | 48171          |
| V_L31         | Oscilloscope_18  | Line Voltage L3-L1 Sample #18  | float         | RO  | 0       | 48173          |
| V_L31         | Oscilloscope_19  | Line Voltage L3-L1 Sample #19  | float         | RO  | 0       | 48175          |
| V_L31         | Oscilloscope_20  | Line Voltage L3-L1 Sample #20  | float         | RO  | 0       | 48177          |
| V_L31         | Oscilloscope_21  | Line Voltage L3-L1 Sample #21  | float         | RO  | 0       | 48179          |
| V_L31         | Oscilloscope_22  | Line Voltage L3-L1 Sample #22  | float         | RO  | 0       | 48181          |
| V_L31         | Oscilloscope_23  | Line Voltage L3-L1 Sample #23  | float         | RO  | 0       | 48183          |
| V_L31         | Oscilloscope_24  | Line Voltage L3-L1 Sample #24  | float         | RO  | 0       | 48185          |
| V_L31         | Oscilloscope_25  | Line Voltage L3-L1 Sample #25  | float         | RO  | 0       | 48187          |
| V_L31         | Oscilloscope_26  | Line Voltage L3-L1 Sample #26  | float         | RO  | 0       | 48189          |
| V_L31         | Oscilloscope_27  | Line Voltage L3-L1 Sample #27  | float         | RO  | 0       | 48191          |
| V_L31         | Oscilloscope_28  | Line Voltage L3-L1 Sample #28  | float         | RO  | 0       | 48193          |
| V_L31         | Oscilloscope_29  | Line Voltage L3-L1 Sample #29  | float         | RO  | 0       | 48195          |
| V_L31         | Oscilloscope_30  | Line Voltage L3-L1 Sample #30  | float         | RO  | 0       | 48197          |
| V_L31         | Oscilloscope_31  | Line Voltage L3-L1 Sample #31  | float         | RO  | 0       | 48199          |
| V_L31         | Oscilloscope_32  | Line Voltage L3-L1 Sample #32  | float         | RO  | 0       | 48201          |
| V_L31         | Oscilloscope_33  | Line Voltage L3-L1 Sample #33  | float         | RO  | 0       | 48203          |
| V_L31         | Oscilloscope_34  | Line Voltage L3-L1 Sample #34  | float         | RO  | 0       | 48205          |
| V_L31         | Oscilloscope_35  | Line Voltage L3-L1 Sample #35  | float         | RO  | 0       | 48207          |
| V_L31         | Oscilloscope_36  | Line Voltage L3-L1 Sample #36  | float         | RO  | 0       | 48209          |
| V_L31         | Oscilloscope_37  | Line Voltage L3-L1 Sample #37  | float         | RO  | 0       | 48211          |
| V_L31         | Oscilloscope_38  | Line Voltage L3-L1 Sample #38  | float         | RO  | 0       | 48213          |
| V_L31         | Oscilloscope_39  | Line Voltage L3-L1 Sample #39  | float         | RO  | 0       | 48215          |
| V_L31         | Oscilloscope_40  | Line Voltage L3-L1 Sample #40  | float         | RO  | 0       | 48217          |
| V_L31         | Oscilloscope_41  | Line Voltage L3-L1 Sample #41  | float         | RO  | 0       | 48219          |
| V_L31         | Oscilloscope_42  | Line Voltage L3-L1 Sample #42  | float         | RO  | 0       | 48221          |
| V_L31         | Oscilloscope_43  | Line Voltage L3-L1 Sample #43  | float         | RO  | 0       | 48223          |
| V_L31         | Oscilloscope_44  | Line Voltage L3-L1 Sample #44  | float         | RO  | 0       | 48225          |
| V_L31         | Oscilloscope_45  | Line Voltage L3-L1 Sample #45  | float         | RO  | 0       | 48227          |
| V_L31         | Oscilloscope_46  | Line Voltage L3-L1 Sample #46  | float         | RO  | 0       | 48229          |
| V_L31         | Oscilloscope_47  | Line Voltage L3-L1 Sample #47  | float         | RO  | 0       | 48231          |
| V_L31         | Oscilloscope_48  | Line Voltage L3-L1 Sample #48  | float         | RO  | 0       | 48233          |
| V_L31         | Oscilloscope_49  | Line Voltage L3-L1 Sample #49  | float         | RO  | 0       | 48235          |
| V_L31         | Oscilloscope_50  | Line Voltage L3-L1 Sample #50  | float         | RO  | 0       | 48237          |
| V_L31         | Oscilloscope_51  | Line Voltage L3-L1 Sample #51  | float         | RO  | 0       | 48239          |
| V_L31         | Oscilloscope_52  | Line Voltage L3-L1 Sample #52  | float         | RO  | 0       | 48241          |
| V_L31         | Oscilloscope_53  | Line Voltage L3-L1 Sample #53  | float         | RO  | 0       | 48243          |
| V_L31         | Oscilloscope_54  | Line Voltage L3-L1 Sample #54  | float         | RO  | 0       | 48245          |
| V_L31         | Oscilloscope_55  | Line Voltage L3-L1 Sample #55  | float         | RO  | 0       | 48247          |
| V_L31         | Oscilloscope_56  | Line Voltage L3-L1 Sample #56  | float         | RO  | 0       | 48249          |
| V_L31         | Oscilloscope_57  | Line Voltage L3-L1 Sample #57  | float         | RO  | 0       | 48251          |
| V_L31         | Oscilloscope_58  | Line Voltage L3-L1 Sample #58  | float         | RO  | 0       | 48253          |
| V_L31         | Oscilloscope_59  | Line Voltage L3-L1 Sample #59  | float         | RO  | 0       | 48255          |
| V_L31         | Oscilloscope_60  | Line Voltage L3-L1 Sample #60  | float         | RO  | 0       | 48257          |
| V_L31         | Oscilloscope_61  | Line Voltage L3-L1 Sample #61  | float         | RO  | 0       | 48259          |
| V_L31         | Oscilloscope_62  | Line Voltage L3-L1 Sample #62  | float         | RO  | 0       | 48261          |
| V_L31         | Oscilloscope_63  | Line Voltage L3-L1 Sample #63  | float         | RO  | 0       | 48263          |
| V_L31         | Oscilloscope_64  | Line Voltage L3-L1 Sample #64  | float         | RO  | 0       | 48265          |
| V_L31         | Oscilloscope_65  | Line Voltage L3-L1 Sample #65  | float         | RO  | 0       | 48267          |
| V_L31         | Oscilloscope_66  | Line Voltage L3-L1 Sample #66  | float         | RO  | 0       | 48269          |
| V_L31         | Oscilloscope_67  | Line Voltage L3-L1 Sample #67  | float         | RO  | 0       | 48271          |
| V_L31         | Oscilloscope_68  | Line Voltage L3-L1 Sample #68  | float         | RO  | 0       | 48273          |
| V_L31         | Oscilloscope_69  | Line Voltage L3-L1 Sample #69  | float         | RO  | 0       | 48275          |
| V_L31         | Oscilloscope_70  | Line Voltage L3-L1 Sample #70  | float         | RO  | 0       | 48277          |
| V_L31         | Oscilloscope_71  | Line Voltage L3-L1 Sample #71  | float         | RO  | 0       | 48279          |
| V_L31         | Oscilloscope_72  | Line Voltage L3-L1 Sample #72  | float         | RO  | 0       | 48281          |
| V_L31         | Oscilloscope_73  | Line Voltage L3-L1 Sample #73  | float         | RO  | 0       | 48283          |
| V_L31         | Oscilloscope_74  | Line Voltage L3-L1 Sample #74  | float         | RO  | 0       | 48285          |
| V_L31         | Oscilloscope_75  | Line Voltage L3-L1 Sample #75  | float         | RO  | 0       | 48287          |
| V_L31         | Oscilloscope_76  | Line Voltage L3-L1 Sample #76  | float         | RO  | 0       | 48289          |
| V_L31         | Oscilloscope_77  | Line Voltage L3-L1 Sample #77  | float         | RO  | 0       | 48291          |
| V_L31         | Oscilloscope_78  | Line Voltage L3-L1 Sample #78  | float         | RO  | 0       | 48293          |
| V_L31         | Oscilloscope_79  | Line Voltage L3-L1 Sample #79  | float         | RO  | 0       | 48295          |
| V_L31         | Oscilloscope_80  | Line Voltage L3-L1 Sample #80  | float         | RO  | 0       | 48297          |
| V_L31         | Oscilloscope_81  | Line Voltage L3-L1 Sample #81  | float         | RO  | 0       | 48299          |
| V_L31         | Oscilloscope_82  | Line Voltage L3-L1 Sample #82  | float         | RO  | 0       | 48301          |
| V_L31         | Oscilloscope_83  | Line Voltage L3-L1 Sample #83  | float         | RO  | 0       | 48303          |
| V_L31         | Oscilloscope_84  | Line Voltage L3-L1 Sample #84  | float         | RO  | 0       | 48305          |
| V_L31         | Oscilloscope_85  | Line Voltage L3-L1 Sample #85  | float         | RO  | 0       | 48307          |
| V_L31         | Oscilloscope_86  | Line Voltage L3-L1 Sample #86  | float         | RO  | 0       | 48309          |
| V_L31         | Oscilloscope_87  | Line Voltage L3-L1 Sample #87  | float         | RO  | 0       | 48311          |
| V_L31         | Oscilloscope_88  | Line Voltage L3-L1 Sample #88  | float         | RO  | 0       | 48313          |
| V_L31         | Oscilloscope_89  | Line Voltage L3-L1 Sample #89  | float         | RO  | 0       | 48315          |
| V_L31         | Oscilloscope_90  | Line Voltage L3-L1 Sample #90  | float         | RO  | 0       | 48317          |
| V_L31         | Oscilloscope_91  | Line Voltage L3-L1 Sample #91  | float         | RO  | 0       | 48319          |
| V_L31         | Oscilloscope_92  | Line Voltage L3-L1 Sample #92  | float         | RO  | 0       | 48321          |
| V_L31         | Oscilloscope_93  | Line Voltage L3-L1 Sample #93  | float         | RO  | 0       | 48323          |
| V_L31         | Oscilloscope_94  | Line Voltage L3-L1 Sample #94  | float         | RO  | 0       | 48325          |
| V_L31         | Oscilloscope_95  | Line Voltage L3-L1 Sample #95  | float         | RO  | 0       | 48327          |
| V_L31         | Oscilloscope_96  | Line Voltage L3-L1 Sample #96  | float         | RO  | 0       | 48329          |
| V_L31         | Oscilloscope_97  | Line Voltage L3-L1 Sample #97  | float         | RO  | 0       | 48331          |
| V_L31         | Oscilloscope_98  | Line Voltage L3-L1 Sample #98  | float         | RO  | 0       | 48333          |
| V_L31         | Oscilloscope_99  | Line Voltage L3-L1 Sample #99  | float         | RO  | 0       | 48335          |
| V_L31         | Oscilloscope_100 | Line Voltage L3-L1 Sample #100 | float         | RO  | 0       | 48337          |
| V_L31         | Oscilloscope_101 | Line Voltage L3-L1 Sample #101 | float         | RO  | 0       | 48339          |
| V_L31         | Oscilloscope_102 | Line Voltage L3-L1 Sample #102 | float         | RO  | 0       | 48341          |
| V_L31         | Oscilloscope_103 | Line Voltage L3-L1 Sample #103 | float         | RO  | 0       | 48343          |
| V_L31         | Oscilloscope_104 | Line Voltage L3-L1 Sample #104 | float         | RO  | 0       | 48345          |
| V_L31         | Oscilloscope_105 | Line Voltage L3-L1 Sample #105 | float         | RO  | 0       | 48347          |
| V_L31         | Oscilloscope_106 | Line Voltage L3-L1 Sample #106 | float         | RO  | 0       | 48349          |
| V_L31         | Oscilloscope_107 | Line Voltage L3-L1 Sample #107 | float         | RO  | 0       | 48351          |
| V_L31         | Oscilloscope_108 | Line Voltage L3-L1 Sample #108 | float         | RO  | 0       | 48353          |
| V_L31         | Oscilloscope_109 | Line Voltage L3-L1 Sample #109 | float         | RO  | 0       | 48355          |
| V_L31         | Oscilloscope_110 | Line Voltage L3-L1 Sample #110 | float         | RO  | 0       | 48357          |
| V_L31         | Oscilloscope_111 | Line Voltage L3-L1 Sample #111 | float         | RO  | 0       | 48359          |

Only FULL version

- R/W legend:
- RO: Read only
  - WO: Write only
  - R/W: Read and write

| Register Name |                  | Description                    | Register Type | R/W | Default | Modbus Address |
|---------------|------------------|--------------------------------|---------------|-----|---------|----------------|
| V_L31         | Oscilloscope_112 | Line Voltage L3-L1 Sample #112 | float         | RO  | 0       | 48361          |
| V_L31         | Oscilloscope_113 | Line Voltage L3-L1 Sample #113 | float         | RO  | 0       | 48363          |
| V_L31         | Oscilloscope_114 | Line Voltage L3-L1 Sample #114 | float         | RO  | 0       | 48365          |
| V_L31         | Oscilloscope_115 | Line Voltage L3-L1 Sample #115 | float         | RO  | 0       | 48367          |
| V_L31         | Oscilloscope_116 | Line Voltage L3-L1 Sample #116 | float         | RO  | 0       | 48369          |
| V_L31         | Oscilloscope_117 | Line Voltage L3-L1 Sample #117 | float         | RO  | 0       | 48371          |
| V_L31         | Oscilloscope_118 | Line Voltage L3-L1 Sample #118 | float         | RO  | 0       | 48373          |
| V_L31         | Oscilloscope_119 | Line Voltage L3-L1 Sample #119 | float         | RO  | 0       | 48375          |
| V_L31         | Oscilloscope_120 | Line Voltage L3-L1 Sample #120 | float         | RO  | 0       | 48377          |
| V_L31         | Oscilloscope_121 | Line Voltage L3-L1 Sample #121 | float         | RO  | 0       | 48379          |
| V_L31         | Oscilloscope_122 | Line Voltage L3-L1 Sample #122 | float         | RO  | 0       | 48381          |
| V_L31         | Oscilloscope_123 | Line Voltage L3-L1 Sample #123 | float         | RO  | 0       | 48383          |
| V_L31         | Oscilloscope_124 | Line Voltage L3-L1 Sample #124 | float         | RO  | 0       | 48385          |
| V_L31         | Oscilloscope_125 | Line Voltage L3-L1 Sample #125 | float         | RO  | 0       | 48387          |
| V_L31         | Oscilloscope_126 | Line Voltage L3-L1 Sample #126 | float         | RO  | 0       | 48389          |
| V_L31         | Oscilloscope_127 | Line Voltage L3-L1 Sample #127 | float         | RO  | 0       | 48391          |
| I_L1          | Oscilloscope_0   | Line Current L1 Sample #0      | float         | RO  | 0       | 48393          |
| I_L1          | Oscilloscope_1   | Line Current L1 Sample #1      | float         | RO  | 0       | 48395          |
| I_L1          | Oscilloscope_2   | Line Current L1 Sample #2      | float         | RO  | 0       | 48397          |
| I_L1          | Oscilloscope_3   | Line Current L1 Sample #3      | float         | RO  | 0       | 48399          |
| I_L1          | Oscilloscope_4   | Line Current L1 Sample #4      | float         | RO  | 0       | 48401          |
| I_L1          | Oscilloscope_5   | Line Current L1 Sample #5      | float         | RO  | 0       | 48403          |
| I_L1          | Oscilloscope_6   | Line Current L1 Sample #6      | float         | RO  | 0       | 48405          |
| I_L1          | Oscilloscope_7   | Line Current L1 Sample #7      | float         | RO  | 0       | 48407          |
| I_L1          | Oscilloscope_8   | Line Current L1 Sample #8      | float         | RO  | 0       | 48409          |
| I_L1          | Oscilloscope_9   | Line Current L1 Sample #9      | float         | RO  | 0       | 48411          |
| I_L1          | Oscilloscope_10  | Line Current L1 Sample #10     | float         | RO  | 0       | 48413          |
| I_L1          | Oscilloscope_11  | Line Current L1 Sample #11     | float         | RO  | 0       | 48415          |
| I_L1          | Oscilloscope_12  | Line Current L1 Sample #12     | float         | RO  | 0       | 48417          |
| I_L1          | Oscilloscope_13  | Line Current L1 Sample #13     | float         | RO  | 0       | 48419          |
| I_L1          | Oscilloscope_14  | Line Current L1 Sample #14     | float         | RO  | 0       | 48421          |
| I_L1          | Oscilloscope_15  | Line Current L1 Sample #15     | float         | RO  | 0       | 48423          |
| I_L1          | Oscilloscope_16  | Line Current L1 Sample #16     | float         | RO  | 0       | 48425          |
| I_L1          | Oscilloscope_17  | Line Current L1 Sample #17     | float         | RO  | 0       | 48427          |
| I_L1          | Oscilloscope_18  | Line Current L1 Sample #18     | float         | RO  | 0       | 48429          |
| I_L1          | Oscilloscope_19  | Line Current L1 Sample #19     | float         | RO  | 0       | 48431          |
| I_L1          | Oscilloscope_20  | Line Current L1 Sample #20     | float         | RO  | 0       | 48433          |
| I_L1          | Oscilloscope_21  | Line Current L1 Sample #21     | float         | RO  | 0       | 48435          |
| I_L1          | Oscilloscope_22  | Line Current L1 Sample #22     | float         | RO  | 0       | 48437          |
| I_L1          | Oscilloscope_23  | Line Current L1 Sample #23     | float         | RO  | 0       | 48439          |
| I_L1          | Oscilloscope_24  | Line Current L1 Sample #24     | float         | RO  | 0       | 48441          |
| I_L1          | Oscilloscope_25  | Line Current L1 Sample #25     | float         | RO  | 0       | 48443          |
| I_L1          | Oscilloscope_26  | Line Current L1 Sample #26     | float         | RO  | 0       | 48445          |
| I_L1          | Oscilloscope_27  | Line Current L1 Sample #27     | float         | RO  | 0       | 48447          |
| I_L1          | Oscilloscope_28  | Line Current L1 Sample #28     | float         | RO  | 0       | 48449          |
| I_L1          | Oscilloscope_29  | Line Current L1 Sample #29     | float         | RO  | 0       | 48451          |
| I_L1          | Oscilloscope_30  | Line Current L1 Sample #30     | float         | RO  | 0       | 48453          |
| I_L1          | Oscilloscope_31  | Line Current L1 Sample #31     | float         | RO  | 0       | 48455          |
| I_L1          | Oscilloscope_32  | Line Current L1 Sample #32     | float         | RO  | 0       | 48457          |
| I_L1          | Oscilloscope_33  | Line Current L1 Sample #33     | float         | RO  | 0       | 48459          |
| I_L1          | Oscilloscope_34  | Line Current L1 Sample #34     | float         | RO  | 0       | 48461          |
| I_L1          | Oscilloscope_35  | Line Current L1 Sample #35     | float         | RO  | 0       | 48463          |
| I_L1          | Oscilloscope_36  | Line Current L1 Sample #36     | float         | RO  | 0       | 48465          |
| I_L1          | Oscilloscope_37  | Line Current L1 Sample #37     | float         | RO  | 0       | 48467          |
| I_L1          | Oscilloscope_38  | Line Current L1 Sample #38     | float         | RO  | 0       | 48469          |
| I_L1          | Oscilloscope_39  | Line Current L1 Sample #39     | float         | RO  | 0       | 48471          |
| I_L1          | Oscilloscope_40  | Line Current L1 Sample #40     | float         | RO  | 0       | 48473          |
| I_L1          | Oscilloscope_41  | Line Current L1 Sample #41     | float         | RO  | 0       | 48475          |
| I_L1          | Oscilloscope_42  | Line Current L1 Sample #42     | float         | RO  | 0       | 48477          |
| I_L1          | Oscilloscope_43  | Line Current L1 Sample #43     | float         | RO  | 0       | 48479          |
| I_L1          | Oscilloscope_44  | Line Current L1 Sample #44     | float         | RO  | 0       | 48481          |
| I_L1          | Oscilloscope_45  | Line Current L1 Sample #45     | float         | RO  | 0       | 48483          |
| I_L1          | Oscilloscope_46  | Line Current L1 Sample #46     | float         | RO  | 0       | 48485          |
| I_L1          | Oscilloscope_47  | Line Current L1 Sample #47     | float         | RO  | 0       | 48487          |
| I_L1          | Oscilloscope_48  | Line Current L1 Sample #48     | float         | RO  | 0       | 48489          |
| I_L1          | Oscilloscope_49  | Line Current L1 Sample #49     | float         | RO  | 0       | 48491          |
| I_L1          | Oscilloscope_50  | Line Current L1 Sample #50     | float         | RO  | 0       | 48493          |
| I_L1          | Oscilloscope_51  | Line Current L1 Sample #51     | float         | RO  | 0       | 48495          |
| I_L1          | Oscilloscope_52  | Line Current L1 Sample #52     | float         | RO  | 0       | 48497          |
| I_L1          | Oscilloscope_53  | Line Current L1 Sample #53     | float         | RO  | 0       | 48499          |
| I_L1          | Oscilloscope_54  | Line Current L1 Sample #54     | float         | RO  | 0       | 48501          |
| I_L1          | Oscilloscope_55  | Line Current L1 Sample #55     | float         | RO  | 0       | 48503          |
| I_L1          | Oscilloscope_56  | Line Current L1 Sample #56     | float         | RO  | 0       | 48505          |
| I_L1          | Oscilloscope_57  | Line Current L1 Sample #57     | float         | RO  | 0       | 48507          |
| I_L1          | Oscilloscope_58  | Line Current L1 Sample #58     | float         | RO  | 0       | 48509          |
| I_L1          | Oscilloscope_59  | Line Current L1 Sample #59     | float         | RO  | 0       | 48511          |
| I_L1          | Oscilloscope_60  | Line Current L1 Sample #60     | float         | RO  | 0       | 48513          |
| I_L1          | Oscilloscope_61  | Line Current L1 Sample #61     | float         | RO  | 0       | 48515          |
| I_L1          | Oscilloscope_62  | Line Current L1 Sample #62     | float         | RO  | 0       | 48517          |
| I_L1          | Oscilloscope_63  | Line Current L1 Sample #63     | float         | RO  | 0       | 48519          |
| I_L1          | Oscilloscope_64  | Line Current L1 Sample #64     | float         | RO  | 0       | 48521          |
| I_L1          | Oscilloscope_65  | Line Current L1 Sample #65     | float         | RO  | 0       | 48523          |
| I_L1          | Oscilloscope_66  | Line Current L1 Sample #66     | float         | RO  | 0       | 48525          |
| I_L1          | Oscilloscope_67  | Line Current L1 Sample #67     | float         | RO  | 0       | 48527          |
| I_L1          | Oscilloscope_68  | Line Current L1 Sample #68     | float         | RO  | 0       | 48529          |
| I_L1          | Oscilloscope_69  | Line Current L1 Sample #69     | float         | RO  | 0       | 48531          |
| I_L1          | Oscilloscope_70  | Line Current L1 Sample #70     | float         | RO  | 0       | 48533          |
| I_L1          | Oscilloscope_71  | Line Current L1 Sample #71     | float         | RO  | 0       | 48535          |
| I_L1          | Oscilloscope_72  | Line Current L1 Sample #72     | float         | RO  | 0       | 48537          |
| I_L1          | Oscilloscope_73  | Line Current L1 Sample #73     | float         | RO  | 0       | 48539          |
| I_L1          | Oscilloscope_74  | Line Current L1 Sample #74     | float         | RO  | 0       | 48541          |
| I_L1          | Oscilloscope_75  | Line Current L1 Sample #75     | float         | RO  | 0       | 48543          |
| I_L1          | Oscilloscope_76  | Line Current L1 Sample #76     | float         | RO  | 0       | 48545          |
| I_L1          | Oscilloscope_77  | Line Current L1 Sample #77     | float         | RO  | 0       | 48547          |
| I_L1          | Oscilloscope_78  | Line Current L1 Sample #78     | float         | RO  | 0       | 48549          |
| I_L1          | Oscilloscope_79  | Line Current L1 Sample #79     | float         | RO  | 0       | 48551          |
| I_L1          | Oscilloscope_80  | Line Current L1 Sample #80     | float         | RO  | 0       | 48553          |
| I_L1          | Oscilloscope_81  | Line Current L1 Sample #81     | float         | RO  | 0       | 48555          |
| I_L1          | Oscilloscope_82  | Line Current L1 Sample #82     | float         | RO  | 0       | 48557          |
| I_L1          | Oscilloscope_83  | Line Current L1 Sample #83     | float         | RO  | 0       | 48559          |
| I_L1          | Oscilloscope_84  | Line Current L1 Sample #84     | float         | RO  | 0       | 48561          |
| I_L1          | Oscilloscope_85  | Line Current L1 Sample #85     | float         | RO  | 0       | 48563          |
| I_L1          | Oscilloscope_86  | Line Current L1 Sample #86     | float         | RO  | 0       | 48565          |
| I_L1          | Oscilloscope_87  | Line Current L1 Sample #87     | float         | RO  | 0       | 48567          |
| I_L1          | Oscilloscope_88  | Line Current L1 Sample #88     | float         | RO  | 0       | 48569          |
| I_L1          | Oscilloscope_89  | Line Current L1 Sample #89     | float         | RO  | 0       | 48571          |
| I_L1          | Oscilloscope_90  | Line Current L1 Sample #90     | float         | RO  | 0       | 48573          |
| I_L1          | Oscilloscope_91  | Line Current L1 Sample #91     | float         | RO  | 0       | 48575          |
| I_L1          | Oscilloscope_92  | Line Current L1 Sample #92     | float         | RO  | 0       | 48577          |
| I_L1          | Oscilloscope_93  | Line Current L1 Sample #93     | float         | RO  | 0       | 48579          |
| I_L1          | Oscilloscope_94  | Line Current L1 Sample #94     | float         | RO  | 0       | 48581          |
| I_L1          | Oscilloscope_95  | Line Current L1 Sample #95     | float         | RO  | 0       | 48583          |
| I_L1          | Oscilloscope_96  | Line Current L1 Sample #96     | float         | RO  | 0       | 48585          |
| I_L1          | Oscilloscope_97  | Line Current L1 Sample #97     | float         | RO  | 0       | 48587          |
| I_L1          | Oscilloscope_98  | Line Current L1 Sample #98     | float         | RO  | 0       | 48589          |
| I_L1          | Oscilloscope_99  | Line Current L1 Sample #99     | float         | RO  | 0       | 48591          |
| I_L1          | Oscilloscope_100 | Line Current L1 Sample #100    | float         | RO  | 0       | 48593          |
| I_L1          | Oscilloscope_101 | Line Current L1 Sample #101    | float         | RO  | 0       | 48595          |
| I_L1          | Oscilloscope_102 | Line Current L1 Sample #102    | float         | RO  | 0       | 48597          |
| I_L1          | Oscilloscope_103 | Line Current L1 Sample #103    | float         | RO  | 0       | 48599          |
| I_L1          | Oscilloscope_104 | Line Current L1 Sample #104    | float         | RO  | 0       | 48601          |

R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

Only FULL version

| Register Name   |     | Description                 | Register Type | R/W | Default | Modbus Address |
|-----------------|-----|-----------------------------|---------------|-----|---------|----------------|
| L1 Oscilloscope | 105 | Line Current L1 Sample #105 | float         | RO  | 0       | 48603          |
| L1 Oscilloscope | 106 | Line Current L1 Sample #106 | float         | RO  | 0       | 48605          |
| L1 Oscilloscope | 107 | Line Current L1 Sample #107 | float         | RO  | 0       | 48607          |
| L1 Oscilloscope | 108 | Line Current L1 Sample #108 | float         | RO  | 0       | 48609          |
| L1 Oscilloscope | 109 | Line Current L1 Sample #109 | float         | RO  | 0       | 48611          |
| L1 Oscilloscope | 110 | Line Current L1 Sample #110 | float         | RO  | 0       | 48613          |
| L1 Oscilloscope | 111 | Line Current L1 Sample #111 | float         | RO  | 0       | 48615          |
| L1 Oscilloscope | 112 | Line Current L1 Sample #112 | float         | RO  | 0       | 48617          |
| L1 Oscilloscope | 113 | Line Current L1 Sample #113 | float         | RO  | 0       | 48619          |
| L1 Oscilloscope | 114 | Line Current L1 Sample #114 | float         | RO  | 0       | 48621          |
| L1 Oscilloscope | 115 | Line Current L1 Sample #115 | float         | RO  | 0       | 48623          |
| L1 Oscilloscope | 116 | Line Current L1 Sample #116 | float         | RO  | 0       | 48625          |
| L1 Oscilloscope | 117 | Line Current L1 Sample #117 | float         | RO  | 0       | 48627          |
| L1 Oscilloscope | 118 | Line Current L1 Sample #118 | float         | RO  | 0       | 48629          |
| L1 Oscilloscope | 119 | Line Current L1 Sample #119 | float         | RO  | 0       | 48631          |
| L1 Oscilloscope | 120 | Line Current L1 Sample #120 | float         | RO  | 0       | 48633          |
| L1 Oscilloscope | 121 | Line Current L1 Sample #121 | float         | RO  | 0       | 48635          |
| L1 Oscilloscope | 122 | Line Current L1 Sample #122 | float         | RO  | 0       | 48637          |
| L1 Oscilloscope | 123 | Line Current L1 Sample #123 | float         | RO  | 0       | 48639          |
| L1 Oscilloscope | 124 | Line Current L1 Sample #124 | float         | RO  | 0       | 48641          |
| L1 Oscilloscope | 125 | Line Current L1 Sample #125 | float         | RO  | 0       | 48643          |
| L1 Oscilloscope | 126 | Line Current L1 Sample #126 | float         | RO  | 0       | 48645          |
| L1 Oscilloscope | 127 | Line Current L1 Sample #127 | float         | RO  | 0       | 48647          |
| L2 Oscilloscope | 0   | Line Current L2 Sample #0   | float         | RO  | 0       | 48649          |
| L2 Oscilloscope | 1   | Line Current L2 Sample #1   | float         | RO  | 0       | 48651          |
| L2 Oscilloscope | 2   | Line Current L2 Sample #2   | float         | RO  | 0       | 48653          |
| L2 Oscilloscope | 3   | Line Current L2 Sample #3   | float         | RO  | 0       | 48655          |
| L2 Oscilloscope | 4   | Line Current L2 Sample #4   | float         | RO  | 0       | 48657          |
| L2 Oscilloscope | 5   | Line Current L2 Sample #5   | float         | RO  | 0       | 48659          |
| L2 Oscilloscope | 6   | Line Current L2 Sample #6   | float         | RO  | 0       | 48661          |
| L2 Oscilloscope | 7   | Line Current L2 Sample #7   | float         | RO  | 0       | 48663          |
| L2 Oscilloscope | 8   | Line Current L2 Sample #8   | float         | RO  | 0       | 48665          |
| L2 Oscilloscope | 9   | Line Current L2 Sample #9   | float         | RO  | 0       | 48667          |
| L2 Oscilloscope | 10  | Line Current L2 Sample #10  | float         | RO  | 0       | 48669          |
| L2 Oscilloscope | 11  | Line Current L2 Sample #11  | float         | RO  | 0       | 48671          |
| L2 Oscilloscope | 12  | Line Current L2 Sample #12  | float         | RO  | 0       | 48673          |
| L2 Oscilloscope | 13  | Line Current L2 Sample #13  | float         | RO  | 0       | 48675          |
| L2 Oscilloscope | 14  | Line Current L2 Sample #14  | float         | RO  | 0       | 48677          |
| L2 Oscilloscope | 15  | Line Current L2 Sample #15  | float         | RO  | 0       | 48679          |
| L2 Oscilloscope | 16  | Line Current L2 Sample #16  | float         | RO  | 0       | 48681          |
| L2 Oscilloscope | 17  | Line Current L2 Sample #17  | float         | RO  | 0       | 48683          |
| L2 Oscilloscope | 18  | Line Current L2 Sample #18  | float         | RO  | 0       | 48685          |
| L2 Oscilloscope | 19  | Line Current L2 Sample #19  | float         | RO  | 0       | 48687          |
| L2 Oscilloscope | 20  | Line Current L2 Sample #20  | float         | RO  | 0       | 48689          |
| L2 Oscilloscope | 21  | Line Current L2 Sample #21  | float         | RO  | 0       | 48691          |
| L2 Oscilloscope | 22  | Line Current L2 Sample #22  | float         | RO  | 0       | 48693          |
| L2 Oscilloscope | 23  | Line Current L2 Sample #23  | float         | RO  | 0       | 48695          |
| L2 Oscilloscope | 24  | Line Current L2 Sample #24  | float         | RO  | 0       | 48697          |
| L2 Oscilloscope | 25  | Line Current L2 Sample #25  | float         | RO  | 0       | 48699          |
| L2 Oscilloscope | 26  | Line Current L2 Sample #26  | float         | RO  | 0       | 48701          |
| L2 Oscilloscope | 27  | Line Current L2 Sample #27  | float         | RO  | 0       | 48703          |
| L2 Oscilloscope | 28  | Line Current L2 Sample #28  | float         | RO  | 0       | 48705          |
| L2 Oscilloscope | 29  | Line Current L2 Sample #29  | float         | RO  | 0       | 48707          |
| L2 Oscilloscope | 30  | Line Current L2 Sample #30  | float         | RO  | 0       | 48709          |
| L2 Oscilloscope | 31  | Line Current L2 Sample #31  | float         | RO  | 0       | 48711          |
| L2 Oscilloscope | 32  | Line Current L2 Sample #32  | float         | RO  | 0       | 48713          |
| L2 Oscilloscope | 33  | Line Current L2 Sample #33  | float         | RO  | 0       | 48715          |
| L2 Oscilloscope | 34  | Line Current L2 Sample #34  | float         | RO  | 0       | 48717          |
| L2 Oscilloscope | 35  | Line Current L2 Sample #35  | float         | RO  | 0       | 48719          |
| L2 Oscilloscope | 36  | Line Current L2 Sample #36  | float         | RO  | 0       | 48721          |
| L2 Oscilloscope | 37  | Line Current L2 Sample #37  | float         | RO  | 0       | 48723          |
| L2 Oscilloscope | 38  | Line Current L2 Sample #38  | float         | RO  | 0       | 48725          |
| L2 Oscilloscope | 39  | Line Current L2 Sample #39  | float         | RO  | 0       | 48727          |
| L2 Oscilloscope | 40  | Line Current L2 Sample #40  | float         | RO  | 0       | 48729          |
| L2 Oscilloscope | 41  | Line Current L2 Sample #41  | float         | RO  | 0       | 48731          |
| L2 Oscilloscope | 42  | Line Current L2 Sample #42  | float         | RO  | 0       | 48733</        |

R/W legend:

- RO: Read only
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Only FULL version

| Register Name       |                             | Description | Register Type | R/W | Default | Modbus Address |
|---------------------|-----------------------------|-------------|---------------|-----|---------|----------------|
| L2 Oscilloscope 98  | Line Current L2 Sample #98  | float       | RO            | 0   | 48845   |                |
| L2 Oscilloscope 99  | Line Current L2 Sample #99  | float       | RO            | 0   | 48847   |                |
| L2 Oscilloscope 100 | Line Current L2 Sample #100 | float       | RO            | 0   | 48849   |                |
| L2 Oscilloscope 101 | Line Current L2 Sample #101 | float       | RO            | 0   | 48851   |                |
| L2 Oscilloscope 102 | Line Current L2 Sample #102 | float       | RO            | 0   | 48853   |                |
| L2 Oscilloscope 103 | Line Current L2 Sample #103 | float       | RO            | 0   | 48855   |                |
| L2 Oscilloscope 104 | Line Current L2 Sample #104 | float       | RO            | 0   | 48857   |                |
| L2 Oscilloscope 105 | Line Current L2 Sample #105 | float       | RO            | 0   | 48859   |                |
| L2 Oscilloscope 106 | Line Current L2 Sample #106 | float       | RO            | 0   | 48861   |                |
| L2 Oscilloscope 107 | Line Current L2 Sample #107 | float       | RO            | 0   | 48863   |                |
| L2 Oscilloscope 108 | Line Current L2 Sample #108 | float       | RO            | 0   | 48865   |                |
| L2 Oscilloscope 109 | Line Current L2 Sample #109 | float       | RO            | 0   | 48867   |                |
| L2 Oscilloscope 110 | Line Current L2 Sample #110 | float       | RO            | 0   | 48869   |                |
| L2 Oscilloscope 111 | Line Current L2 Sample #111 | float       | RO            | 0   | 48871   |                |
| L2 Oscilloscope 112 | Line Current L2 Sample #112 | float       | RO            | 0   | 48873   |                |
| L2 Oscilloscope 113 | Line Current L2 Sample #113 | float       | RO            | 0   | 48875   |                |
| L2 Oscilloscope 114 | Line Current L2 Sample #114 | float       | RO            | 0   | 48877   |                |
| L2 Oscilloscope 115 | Line Current L2 Sample #115 | float       | RO            | 0   | 48879   |                |
| L2 Oscilloscope 116 | Line Current L2 Sample #116 | float       | RO            | 0   | 48881   |                |
| L2 Oscilloscope 117 | Line Current L2 Sample #117 | float       | RO            | 0   | 48883   |                |
| L2 Oscilloscope 118 | Line Current L2 Sample #118 | float       | RO            | 0   | 48885   |                |
| L2 Oscilloscope 119 | Line Current L2 Sample #119 | float       | RO            | 0   | 48887   |                |
| L2 Oscilloscope 120 | Line Current L2 Sample #120 | float       | RO            | 0   | 48889   |                |
| L2 Oscilloscope 121 | Line Current L2 Sample #121 | float       | RO            | 0   | 48891   |                |
| L2 Oscilloscope 122 | Line Current L2 Sample #122 | float       | RO            | 0   | 48893   |                |
| L2 Oscilloscope 123 | Line Current L2 Sample #123 | float       | RO            | 0   | 48895   |                |
| L2 Oscilloscope 124 | Line Current L2 Sample #124 | float       | RO            | 0   | 48897   |                |
| L2 Oscilloscope 125 | Line Current L2 Sample #125 | float       | RO            | 0   | 48899   |                |
| L2 Oscilloscope 126 | Line Current L2 Sample #126 | float       | RO            | 0   | 48901   |                |
| L2 Oscilloscope 127 | Line Current L2 Sample #127 | float       | RO            | 0   | 48903   |                |
| L3 Oscilloscope 0   | Line Current L3 Sample #0   | float       | RO            | 0   | 48905   |                |
| L3 Oscilloscope 1   | Line Current L3 Sample #1   | float       | RO            | 0   | 48907   |                |
| L3 Oscilloscope 2   | Line Current L3 Sample #2   | float       | RO            | 0   | 48909   |                |
| L3 Oscilloscope 3   | Line Current L3 Sample #3   | float       | RO            | 0   | 48911   |                |
| L3 Oscilloscope 4   | Line Current L3 Sample #4   | float       | RO            | 0   | 48913   |                |
| L3 Oscilloscope 5   | Line Current L3 Sample #5   | float       | RO            | 0   | 48915   |                |
| L3 Oscilloscope 6   | Line Current L3 Sample #6   | float       | RO            | 0   | 48917   |                |
| L3 Oscilloscope 7   | Line Current L3 Sample #7   | float       | RO            | 0   | 48919   |                |
| L3 Oscilloscope 8   | Line Current L3 Sample #8   | float       | RO            | 0   | 48921   |                |
| L3 Oscilloscope 9   | Line Current L3 Sample #9   | float       | RO            | 0   | 48923   |                |
| L3 Oscilloscope 10  | Line Current L3 Sample #10  | float       | RO            | 0   | 48925   |                |
| L3 Oscilloscope 11  | Line Current L3 Sample #11  | float       | RO            | 0   | 48927   |                |
| L3 Oscilloscope 12  | Line Current L3 Sample #12  | float       | RO            | 0   | 48929   |                |
| L3 Oscilloscope 13  | Line Current L3 Sample #13  | float       | RO            | 0   | 48931   |                |
| L3 Oscilloscope 14  | Line Current L3 Sample #14  | float       | RO            | 0   | 48933   |                |
| L3 Oscilloscope 15  | Line Current L3 Sample #15  | float       | RO            | 0   | 48935   |                |
| L3 Oscilloscope 16  | Line Current L3 Sample #16  | float       | RO            | 0   | 48937   |                |
| L3 Oscilloscope 17  | Line Current L3 Sample #17  | float       | RO            | 0   | 48939   |                |
| L3 Oscilloscope 18  | Line Current L3 Sample #18  | float       | RO            | 0   | 48941   |                |
| L3 Oscilloscope 19  | Line Current L3 Sample #19  | float       | RO            | 0   | 48943   |                |
| L3 Oscilloscope 20  | Line Current L3 Sample #20  | float       | RO            | 0   | 48945   |                |
| L3 Oscilloscope 21  | Line Current L3 Sample #21  | float       | RO            | 0   | 48947   |                |
| L3 Oscilloscope 22  | Line Current L3 Sample #22  | float       | RO            | 0   | 48949   |                |
| L3 Oscilloscope 23  | Line Current L3 Sample #23  | float       | RO            | 0   | 48951   |                |
| L3 Oscilloscope 24  | Line Current L3 Sample #24  | float       | RO            | 0   | 48953   |                |
| L3 Oscilloscope 25  | Line Current L3 Sample #25  | float       | RO            | 0   | 48955   |                |
| L3 Oscilloscope 26  | Line Current L3 Sample #26  | float       | RO            | 0   | 48957   |                |
| L3 Oscilloscope 27  | Line Current L3 Sample #27  | float       | RO            | 0   | 48959   |                |
| L3 Oscilloscope 28  | Line Current L3 Sample #28  | float       | RO            | 0   | 48961   |                |
| L3 Oscilloscope 29  | Line Current L3 Sample #29  | float       | RO            | 0   | 48963   |                |
| L3 Oscilloscope 30  | Line Current L3 Sample #30  | float       | RO            | 0   | 48965   |                |
| L3 Oscilloscope 31  | Line Current L3 Sample #31  | float       | RO            | 0   | 48967   |                |
| L3 Oscilloscope 32  | Line Current L3 Sample #32  | float       | RO            | 0   | 48969   |                |
| L3 Oscilloscope 33  | Line Current L3 Sample #33  | float       | RO            | 0   | 48971   |                |
| L3 Oscilloscope 34  | Line Current L3 Sample #34  | float       | RO            | 0   | 48973   |                |
| L3 Oscilloscope 35  | Line Current L3 Sample #35  | float       | RO            | 0   | 48975   |                |
| L3 Oscilloscope 36  | Line Current L3 Sample #36  | float       | RO            | 0   | 48977   |                |
| L3 Oscilloscope 37  | Line Current L3 Sample #37  | float       | RO            | 0   | 48979   |                |
| L3 Oscilloscope 38  | Line Current L3 Sample #38  | float       | RO            | 0   | 48981   |                |
| L3 Oscilloscope 39  | Line Current L3 Sample #39  | float       | RO            | 0   | 48983   |                |
| L3 Oscilloscope 40  | Line Current L3 Sample #40  | float       | RO            | 0   | 48985   |                |
| L3 Oscilloscope 41  | Line Current L3 Sample #41  | float       | RO            | 0   | 48987   |                |
| L3 Oscilloscope 42  | Line Current L3 Sample #42  | float       | RO            | 0   | 48989   |                |
| L3 Oscilloscope 43  | Line Current L3 Sample #43  | float       | RO            | 0   | 48991   |                |
| L3 Oscilloscope 44  | Line Current L3 Sample #44  | float       | RO            | 0   | 48993   |                |
| L3 Oscilloscope 45  | Line Current L3 Sample #45  | float       | RO            | 0   | 48995   |                |
| L3 Oscilloscope 46  | Line Current L3 Sample #46  | float       | RO            | 0   | 48997   |                |
| L3 Oscilloscope 47  | Line Current L3 Sample #47  | float       | RO            | 0   | 48999   |                |
| L3 Oscilloscope 48  | Line Current L3 Sample #48  | float       | RO            | 0   | 49001   |                |
| L3 Oscilloscope 49  | Line Current L3 Sample #49  | float       | RO            | 0   | 49003   |                |
| L3 Oscilloscope 50  | Line Current L3 Sample #50  | float       | RO            | 0   | 49005   |                |
| L3 Oscilloscope 51  | Line Current L3 Sample #51  | float       | RO            | 0   | 49007   |                |
| L3 Oscilloscope 52  | Line Current L3 Sample #52  | float       | RO            | 0   | 49009   |                |
| L3 Oscilloscope 53  | Line Current L3 Sample #53  | float       | RO            | 0   | 49011   |                |
| L3 Oscilloscope 54  | Line Current L3 Sample #54  | float       | RO            | 0   | 49013   |                |
| L3 Oscilloscope 55  | Line Current L3 Sample #55  | float       | RO            | 0   | 49015   |                |
| L3 Oscilloscope 56  | Line Current L3 Sample #56  | float       | RO            | 0   | 49017   |                |
| L3 Oscilloscope 57  | Line Current L3 Sample #57  | float       | RO            | 0   | 49019   |                |
| L3 Oscilloscope 58  | Line Current L3 Sample #58  | float       | RO            | 0   | 49021   |                |
| L3 Oscilloscope 59  | Line Current L3 Sample #59  | float       | RO            | 0   | 49023   |                |
| L3 Oscilloscope 60  | Line Current L3 Sample #60  | float       | RO            | 0   | 49025   |                |
| L3 Oscilloscope 61  | Line Current L3 Sample #61  | float       | RO            | 0   | 49027   |                |
| L3 Oscilloscope 62  | Line Current L3 Sample #62  | float       | RO            | 0   | 49029   |                |
| L3 Oscilloscope 63  | Line Current L3 Sample #63  | float       | RO            | 0   | 49031   |                |
| L3 Oscilloscope 64  | Line Current L3 Sample #64  | float       | RO            | 0   | 49033   |                |
| L3 Oscilloscope 65  | Line Current L3 Sample #65  | float       | RO            | 0   | 49035   |                |
| L3 Oscilloscope 66  | Line Current L3 Sample #66  | float       | RO            | 0   | 49037   |                |
| L3 Oscilloscope 67  | Line Current L3 Sample #67  | float       | RO            | 0   | 49039   |                |
| L3 Oscilloscope 68  | Line Current L3 Sample #68  | float       | RO            | 0   | 49041   |                |
| L3 Oscilloscope 69  | Line Current L3 Sample #69  | float       | RO            | 0   | 49043   |                |
| L3 Oscilloscope 70  | Line Current L3 Sample #70  | float       | RO            | 0   | 49045   |                |
| L3 Oscilloscope 71  | Line Current L3 Sample #71  | float       | RO            | 0   | 49047   |                |
| L3 Oscilloscope 72  | Line Current L3 Sample #72  | float       | RO            | 0   | 49049   |                |
| L3 Oscilloscope 73  | Line Current L3 Sample #73  | float       | RO            | 0   | 49051   |                |
| L3 Oscilloscope 74  | Line Current L3 Sample #74  | float       | RO            | 0   | 49053   |                |
| L3 Oscilloscope 75  | Line Current L3 Sample #75  | float       | RO            | 0   | 49055   |                |
| L3 Oscilloscope 76  | Line Current L3 Sample #76  | float       | RO            | 0   | 49057   |                |
| L3 Oscilloscope 77  | Line Current L3 Sample #77  | float       | RO            | 0   | 49059   |                |
| L3 Oscilloscope 78  | Line Current L3 Sample #78  | float       | RO            | 0   | 49061   |                |
| L3 Oscilloscope 79  | Line Current L3 Sample #79  | float       | RO            | 0   | 49063   |                |
| L3 Oscilloscope 80  | Line Current L3 Sample #80  | float       | RO            | 0   | 49065   |                |
| L3 Oscilloscope 81  | Line Current L3 Sample #81  | float       | RO            | 0   | 49067   |                |
| L3 Oscilloscope 82  | Line Current L3 Sample #82  | float       | RO            | 0   | 49069   |                |
| L3 Oscilloscope 83  | Line Current L3 Sample #83  | float       | RO            | 0   | 49071   |                |
| L3 Oscilloscope 84  | Line Current L3 Sample #84  | float       | RO            | 0   | 49073   |                |
| L3 Oscilloscope 85  | Line Current L3 Sample #85  | float       | RO            | 0   | 49075   |                |
| L3 Oscilloscope 86  | Line Current L3 Sample #86  | float       | RO            | 0   | 49077   |                |
| L3 Oscilloscope 87  | Line Current L3 Sample #87  | float       | RO            | 0   | 49079   |                |
| L3 Oscilloscope 88  | Line Current L3 Sample #88  | float       | RO            | 0   | 49081   |                |
| L3 Oscilloscope 89  | Line Current L3 Sample #89  | float       | RO            | 0   | 49083   |                |
| L3 Oscilloscope 90  | Line Current L3 Sample #90  | float       | RO            | 0   | 49085   |                |



R/W legend:

- RO: Read only
- WO: Write only
- R/W: Read and write

Only FULL version

| Register Name         |                             | Description | Register Type | R/W | Default | Modbus Address |
|-----------------------|-----------------------------|-------------|---------------|-----|---------|----------------|
| I.L3 Oscilloscope_91  | Line Current L3 Sample #91  | float       | RO            | 0   | 49087   |                |
| I.L3 Oscilloscope_92  | Line Current L3 Sample #92  | float       | RO            | 0   | 49089   |                |
| I.L3 Oscilloscope_93  | Line Current L3 Sample #93  | float       | RO            | 0   | 49091   |                |
| I.L3 Oscilloscope_94  | Line Current L3 Sample #94  | float       | RO            | 0   | 49093   |                |
| I.L3 Oscilloscope_95  | Line Current L3 Sample #95  | float       | RO            | 0   | 49095   |                |
| I.L3 Oscilloscope_96  | Line Current L3 Sample #96  | float       | RO            | 0   | 49097   |                |
| I.L3 Oscilloscope_97  | Line Current L3 Sample #97  | float       | RO            | 0   | 49099   |                |
| I.L3 Oscilloscope_98  | Line Current L3 Sample #98  | float       | RO            | 0   | 49101   |                |
| I.L3 Oscilloscope_99  | Line Current L3 Sample #99  | float       | RO            | 0   | 49103   |                |
| I.L3 Oscilloscope_100 | Line Current L3 Sample #100 | float       | RO            | 0   | 49105   |                |
| I.L3 Oscilloscope_101 | Line Current L3 Sample #101 | float       | RO            | 0   | 49107   |                |
| I.L3 Oscilloscope_102 | Line Current L3 Sample #102 | float       | RO            | 0   | 49109   |                |
| I.L3 Oscilloscope_103 | Line Current L3 Sample #103 | float       | RO            | 0   | 49111   |                |
| I.L3 Oscilloscope_104 | Line Current L3 Sample #104 | float       | RO            | 0   | 49113   |                |
| I.L3 Oscilloscope_105 | Line Current L3 Sample #105 | float       | RO            | 0   | 49115   |                |
| I.L3 Oscilloscope_106 | Line Current L3 Sample #106 | float       | RO            | 0   | 49117   |                |
| I.L3 Oscilloscope_107 | Line Current L3 Sample #107 | float       | RO            | 0   | 49119   |                |
| I.L3 Oscilloscope_108 | Line Current L3 Sample #108 | float       | RO            | 0   | 49121   |                |
| I.L3 Oscilloscope_109 | Line Current L3 Sample #109 | float       | RO            | 0   | 49123   |                |
| I.L3 Oscilloscope_110 | Line Current L3 Sample #110 | float       | RO            | 0   | 49125   |                |
| I.L3 Oscilloscope_111 | Line Current L3 Sample #111 | float       | RO            | 0   | 49127   |                |
| I.L3 Oscilloscope_112 | Line Current L3 Sample #112 | float       | RO            | 0   | 49129   |                |
| I.L3 Oscilloscope_113 | Line Current L3 Sample #113 | float       | RO            | 0   | 49131   |                |
| I.L3 Oscilloscope_114 | Line Current L3 Sample #114 | float       | RO            | 0   | 49133   |                |
| I.L3 Oscilloscope_115 | Line Current L3 Sample #115 | float       | RO            | 0   | 49135   |                |
| I.L3 Oscilloscope_116 | Line Current L3 Sample #116 | float       | RO            | 0   | 49137   |                |
| I.L3 Oscilloscope_117 | Line Current L3 Sample #117 | float       | RO            | 0   | 49139   |                |
| I.L3 Oscilloscope_118 | Line Current L3 Sample #118 | float       | RO            | 0   | 49141   |                |
| I.L3 Oscilloscope_119 | Line Current L3 Sample #119 | float       | RO            | 0   | 49143   |                |
| I.L3 Oscilloscope_120 | Line Current L3 Sample #120 | float       | RO            | 0   | 49145   |                |
| I.L3 Oscilloscope_121 | Line Current L3 Sample #121 | float       | RO            | 0   | 49147   |                |
| I.L3 Oscilloscope_122 | Line Current L3 Sample #122 | float       | RO            | 0   | 49149   |                |
| I.L3 Oscilloscope_123 | Line Current L3 Sample #123 | float       | RO            | 0   | 49151   |                |
| I.L3 Oscilloscope_124 | Line Current L3 Sample #124 | float       | RO            | 0   | 49153   |                |
| I.L3 Oscilloscope_125 | Line Current L3 Sample #125 | float       | RO            | 0   | 49155   |                |
| I.L3 Oscilloscope_126 | Line Current L3 Sample #126 | float       | RO            | 0   | 49157   |                |
| I.L3 Oscilloscope_127 | Line Current L3 Sample #127 | float       | RO            | 0   | 49159   |                |
| I.N Oscilloscope_0    | Line Current N Sample #0    | float       | RO            | 0   | 49161   |                |
| I.N Oscilloscope_1    | Line Current N Sample #1    | float       | RO            | 0   | 49163   |                |
| I.N Oscilloscope_2    | Line Current N Sample #2    | float       | RO            | 0   | 49165   |                |
| I.N Oscilloscope_3    | Line Current N Sample #3    | float       | RO            | 0   | 49167   |                |
| I.N Oscilloscope_4    | Line Current N Sample #4    | float       | RO            | 0   | 49169   |                |
| I.N Oscilloscope_5    | Line Current N Sample #5    | float       | RO            | 0   | 49171   |                |
| I.N Oscilloscope_6    | Line Current N Sample #6    | float       | RO            | 0   | 49173   |                |
| I.N Oscilloscope_7    | Line Current N Sample #7    | float       | RO            | 0   | 49175   |                |
| I.N Oscilloscope_8    | Line Current N Sample #8    | float       | RO            | 0   | 49177   |                |
| I.N Oscilloscope_9    | Line Current N Sample #9    | float       | RO            | 0   | 49179   |                |
| I.N Oscilloscope_10   | Line Current N Sample #10   | float       | RO            | 0   | 49181   |                |
| I.N Oscilloscope_11   | Line Current N Sample #11   | float       | RO            | 0   | 49183   |                |
| I.N Oscilloscope_12   | Line Current N Sample #12   | float       | RO            | 0   | 49185   |                |
| I.N Oscilloscope_13   | Line Current N Sample #13   | float       | RO            | 0   | 49187   |                |
| I.N Oscilloscope_14   | Line Current N Sample #14   | float       | RO            | 0   | 49189   |                |
| I.N Oscilloscope_15   | Line Current N Sample #15   | float       | RO            | 0   | 49191   |                |
| I.N Oscilloscope_16   | Line Current N Sample #16   | float       | RO            | 0   | 49193   |                |
| I.N Oscilloscope_17   | Line Current N Sample #17   | float       | RO            | 0   | 49195   |                |
| I.N Oscilloscope_18   | Line Current N Sample #18   | float       | RO            | 0   | 49197   |                |
| I.N Oscilloscope_19   | Line Current N Sample #19   | float       | RO            | 0   | 49199   |                |
| I.N Oscilloscope_20   | Line Current N Sample #20   | float       | RO            | 0   | 49201   |                |
| I.N Oscilloscope_21   | Line Current N Sample #21   | float       | RO            | 0   | 49203   |                |
| I.N Oscilloscope_22   | Line Current N Sample #22   | float       | RO            | 0   | 49205   |                |
| I.N Oscilloscope_23   | Line Current N Sample #23   | float       | RO            | 0   | 49207   |                |
| I.N Oscilloscope_24   | Line Current N Sample #24   | float       | RO            | 0   | 49209   |                |
| I.N Oscilloscope_25   | Line Current N Sample #25   | float       | RO            | 0   | 49211   |                |
| I.N Oscilloscope_26   | Line Current N Sample #26   | float       | RO            | 0   | 49213   |                |
| I.N Oscilloscope_27   | Line Current N Sample #27   | float       | RO            | 0   | 49215   |                |
| I.N Oscilloscope_28   | Line Current N Sample #28   | float       | RO            | 0   | 49217   |                |
| I.N Oscilloscope_29   | Line Current N Sample #29   | float       | RO            | 0   | 49219   |                |
| I.N Oscilloscope_30   | Line Current N Sample #30   | float       | RO            | 0   | 49221   |                |
| I.N Oscilloscope_31   | Line Current N Sample #31   | float       | RO            | 0   | 49223   |                |
| I.N Oscilloscope_32   | Line Current N Sample #32   | float       | RO            | 0   | 49225   |                |
| I.N Oscilloscope_33   | Line Current N Sample #33   | float       | RO            | 0   | 49227   |                |
| I.N Oscilloscope_34   | Line Current N Sample #34   | float       | RO            | 0   | 49229   |                |
| I.N Oscilloscope_35   | Line Current N Sample #35   | float       | RO            | 0   | 49231   |                |
| I.N Oscilloscope_36   | Line Current N Sample #36   | float       | RO            | 0   | 49233   |                |
| I.N Oscilloscope_37   | Line Current N Sample #37   | float       | RO            | 0   | 49235   |                |
| I.N Oscilloscope_38   | Line Current N Sample #38   | float       | RO            | 0   | 49237   |                |
| I.N Oscilloscope_39   | Line Current N Sample #39   | float       | RO            | 0   | 49239   |                |
| I.N Oscilloscope_40   | Line Current N Sample #40   | float       | RO            | 0   | 49241   |                |
| I.N Oscilloscope_41   | Line Current N Sample #41   | float       | RO            | 0   | 49243   |                |
| I.N Oscilloscope_42   | Line Current N Sample #42   | float       | RO            | 0   | 49245   |                |
| I.N Oscilloscope_43   | Line Current N Sample #43   | float       | RO            | 0   | 49247   |                |
| I.N Oscilloscope_44   | Line Current N Sample #44   | float       | RO            | 0   | 49249   |                |
| I.N Oscilloscope_45   | Line Current N Sample #45   | float       | RO            | 0   | 49251   |                |
| I.N Oscilloscope_46   | Line Current N Sample #46   | float       | RO            | 0   | 49253   |                |
| I.N Oscilloscope_47   | Line Current N Sample #47   | float       | RO            | 0   | 49255   |                |
| I.N Oscilloscope_48   | Line Current N Sample #48   | float       | RO            | 0   | 49257   |                |
| I.N Oscilloscope_49   | Line Current N Sample #49   | float       | RO            | 0   | 49259   |                |
| I.N Oscilloscope_50   | Line Current N Sample #50   | float       | RO            | 0   | 49261   |                |
| I.N Oscilloscope_51   | Line Current N Sample #51   | float       | RO            | 0   | 49263   |                |
| I.N Oscilloscope_52   | Line Current N Sample #52   | float       | RO            | 0   | 49265   |                |
| I.N Oscilloscope_53   | Line Current N Sample #53   | float       | RO            | 0   | 49267   |                |
| I.N Oscilloscope_54   | Line Current N Sample #54   | float       | RO            | 0   | 49269   |                |
| I.N Oscilloscope_55   | Line Current N Sample #55   | float       | RO            | 0   | 49271   |                |
| I.N Oscilloscope_56   | Line Current N Sample #56   | float       | RO            | 0   | 49273   |                |
| I.N Oscilloscope_57   | Line Current N Sample #57   | float       | RO            | 0   | 49275   |                |
| I.N Oscilloscope_58   | Line Current N Sample #58   | float       | RO            | 0   | 49277   |                |
| I.N Oscilloscope_59   | Line Current N Sample #59   | float       | RO            | 0   | 49279   |                |
| I.N Oscilloscope_60   | Line Current N Sample #60   | float       | RO            | 0   | 49281   |                |
| I.N Oscilloscope_61   | Line Current N Sample #61   | float       | RO            | 0   | 49283   |                |
| I.N Oscilloscope_62   | Line Current N Sample #62   | float       | RO            | 0   | 49285   |                |
| I.N Oscilloscope_63   | Line Current N Sample #63   | float       | RO            | 0   | 49287   |                |
| I.N Oscilloscope_64   | Line Current N Sample #64   | float       | RO            | 0   | 49289   |                |
| I.N Oscilloscope_65   | Line Current N Sample #65   | float       | RO            | 0   | 49291   |                |
| I.N Oscilloscope_66   | Line Current N Sample #66   | float       | RO            | 0   | 49293   |                |
| I.N Oscilloscope_67   | Line Current N Sample #67   | float       | RO            | 0   | 49295   |                |
| I.N Oscilloscope_68   | Line Current N Sample #68   | float       | RO            | 0   | 49297   |                |
| I.N Oscilloscope_69   | Line Current N Sample #69   | float       | RO            | 0   | 49299   |                |
| I.N Oscilloscope_70   | Line Current N Sample #70   | float       | RO            | 0   | 49301   |                |
| I.N Oscilloscope_71   | Line Current N Sample #71   | float       | RO            | 0   | 49303   |                |
| I.N Oscilloscope_72   | Line Current N Sample #72   | float       | RO            | 0   | 49305   |                |
| I.N Oscilloscope_73   | Line Current N Sample #73   | float       | RO            | 0   | 49307   |                |
| I.N Oscilloscope_74   | Line Current N Sample #74   | float       | RO            | 0   | 49309   |                |
| I.N Oscilloscope_75   | Line Current N Sample #75   | float       | RO            | 0   | 49311   |                |
| I.N Oscilloscope_76   | Line Current N Sample #76   | float       | RO            | 0   | 49313   |                |
| I.N Oscilloscope_77   | Line Current N Sample #77   | float       | RO            | 0   | 49315   |                |
| I.N Oscilloscope_78   | Line Current N Sample #78   | float       | RO            | 0   | 49317   |                |
| I.N Oscilloscope_79   | Line Current N Sample #79   | float       | RO            | 0   | 49319   |                |
| I.N Oscilloscope_80   | Line Current N Sample #80   | float       | RO            | 0   | 49321   |                |
| I.N Oscilloscope_81   | Line Current N Sample #81   | float       | RO            | 0   | 49323   |                |
| I.N Oscilloscope_82   | Line Current N Sample #82   | float       | RO            | 0   | 49325   |                |
| I.N Oscilloscope_83   | Line Current N Sample #83   | float       | RO            | 0   | 49327   |                |



All versions  
Only FULL version

R/W legend:  
• RO: Read only  
• WO: Write only  
• R/W: Read and write



| Register Name        | Description                           | Register Type | R/W | Default | Modbus Address |
|----------------------|---------------------------------------|---------------|-----|---------|----------------|
| I_N_Oscilloscope_84  | Line Current N Sample #84             | float         | RO  | 0       | 49329          |
| I_N_Oscilloscope_85  | Line Current N Sample #85             | float         | RO  | 0       | 49331          |
| I_N_Oscilloscope_86  | Line Current N Sample #86             | float         | RO  | 0       | 49333          |
| I_N_Oscilloscope_87  | Line Current N Sample #87             | float         | RO  | 0       | 49335          |
| I_N_Oscilloscope_88  | Line Current N Sample #88             | float         | RO  | 0       | 49337          |
| I_N_Oscilloscope_89  | Line Current N Sample #89             | float         | RO  | 0       | 49339          |
| I_N_Oscilloscope_90  | Line Current N Sample #90             | float         | RO  | 0       | 49341          |
| I_N_Oscilloscope_91  | Line Current N Sample #91             | float         | RO  | 0       | 49343          |
| I_N_Oscilloscope_92  | Line Current N Sample #92             | float         | RO  | 0       | 49345          |
| I_N_Oscilloscope_93  | Line Current N Sample #93             | float         | RO  | 0       | 49347          |
| I_N_Oscilloscope_94  | Line Current N Sample #94             | float         | RO  | 0       | 49349          |
| I_N_Oscilloscope_95  | Line Current N Sample #95             | float         | RO  | 0       | 49351          |
| I_N_Oscilloscope_96  | Line Current N Sample #96             | float         | RO  | 0       | 49353          |
| I_N_Oscilloscope_97  | Line Current N Sample #97             | float         | RO  | 0       | 49355          |
| I_N_Oscilloscope_98  | Line Current N Sample #98             | float         | RO  | 0       | 49357          |
| I_N_Oscilloscope_99  | Line Current N Sample #99             | float         | RO  | 0       | 49359          |
| I_N_Oscilloscope_100 | Line Current N Sample #100            | float         | RO  | 0       | 49361          |
| I_N_Oscilloscope_101 | Line Current N Sample #101            | float         | RO  | 0       | 49363          |
| I_N_Oscilloscope_102 | Line Current N Sample #102            | float         | RO  | 0       | 49365          |
| I_N_Oscilloscope_103 | Line Current N Sample #103            | float         | RO  | 0       | 49367          |
| I_N_Oscilloscope_104 | Line Current N Sample #104            | float         | RO  | 0       | 49369          |
| I_N_Oscilloscope_105 | Line Current N Sample #105            | float         | RO  | 0       | 49371          |
| I_N_Oscilloscope_106 | Line Current N Sample #106            | float         | RO  | 0       | 49373          |
| I_N_Oscilloscope_107 | Line Current N Sample #107            | float         | RO  | 0       | 49375          |
| I_N_Oscilloscope_108 | Line Current N Sample #108            | float         | RO  | 0       | 49377          |
| I_N_Oscilloscope_109 | Line Current N Sample #109            | float         | RO  | 0       | 49379          |
| I_N_Oscilloscope_110 | Line Current N Sample #110            | float         | RO  | 0       | 49381          |
| I_N_Oscilloscope_111 | Line Current N Sample #111            | float         | RO  | 0       | 49383          |
| I_N_Oscilloscope_112 | Line Current N Sample #112            | float         | RO  | 0       | 49385          |
| I_N_Oscilloscope_113 | Line Current N Sample #113            | float         | RO  | 0       | 49387          |
| I_N_Oscilloscope_114 | Line Current N Sample #114            | float         | RO  | 0       | 49389          |
| I_N_Oscilloscope_115 | Line Current N Sample #115            | float         | RO  | 0       | 49391          |
| I_N_Oscilloscope_116 | Line Current N Sample #116            | float         | RO  | 0       | 49393          |
| I_N_Oscilloscope_117 | Line Current N Sample #117            | float         | RO  | 0       | 49395          |
| I_N_Oscilloscope_118 | Line Current N Sample #118            | float         | RO  | 0       | 49397          |
| I_N_Oscilloscope_119 | Line Current N Sample #119            | float         | RO  | 0       | 49399          |
| I_N_Oscilloscope_120 | Line Current N Sample #120            | float         | RO  | 0       | 49401          |
| I_N_Oscilloscope_121 | Line Current N Sample #121            | float         | RO  | 0       | 49403          |
| I_N_Oscilloscope_122 | Line Current N Sample #122            | float         | RO  | 0       | 49405          |
| I_N_Oscilloscope_123 | Line Current N Sample #123            | float         | RO  | 0       | 49407          |
| I_N_Oscilloscope_124 | Line Current N Sample #124            | float         | RO  | 0       | 49409          |
| I_N_Oscilloscope_125 | Line Current N Sample #125            | float         | RO  | 0       | 49411          |
| I_N_Oscilloscope_126 | Line Current N Sample #126            | float         | RO  | 0       | 49413          |
| I_N_Oscilloscope_127 | Line Current N Sample #127            | float         | RO  | 0       | 49415          |
| Frequency_copy       | Copia Frecuencia per la power quality | float         | RO  | 0       | 49417          |