

# USER MANUAL

**R203**

**Multiprotocol 3-PH Ethernet Energy Meter with universal input**



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**ORIGINAL INSTRUCTIONS**

The content of this documentation refers to products and technologies described in it.

All technical data contained in the document may be changed without notice.

The content of this documentation is subject to periodic review.

To use the product safely and effectively, read the following instructions carefully before use.

The product must be used only for the use for which it was designed and manufactured: any other use is under the full responsibility of the user.

Installation, programming and set-up are allowed only to authorized, physically and intellectually suitable operators.

Set-up must be performed only after correct installation and the user must follow all the operations described in the installation manual carefully.

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Technical specifications are subject to change without notice.

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## Document revisions

DATE	REVISION	NOTES	AUTHOR
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23/11/2020	MI00561-1	Fix Energy Balance Registers Type from Unsigned 64 to Signed 64 Added chapter <b>Errore. L'origine riferimento non è stata trovata.</b>	MM
11/12/2020	MI00561-2	Internal errors corrected, Added address description 40018	AZ
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11/04/2022	MI00561-10	Indicates the selectable variables for the analogue output signal	AZ

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## 1. INTRODUCTION

### **ATTENTION!**

This user manual extends the information from the installation manual to the configuration of the device. Use the installation manual for more information.

### **ATTENTION!**

In any case, SENECA s.r.l. or its suppliers will not be responsible for the loss of data/revenue or consequential or incidental damages due to negligence or bad/improper management of the device, even if SENECA is well aware of these possible damages.

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### 1.1. DESCRIPTION

The R series is based on devices equipped with two Ethernet switch ports that allow a chain connection to the next Ethernet device (daisy chain), so expensive industrial Ethernet switches are not required and wiring is simplified.

The hardware present in the devices allows the internal switch to work even if the device is faulty or not powered for up to 4 days (LAN function with bypass in case of failure).

Another important function is the possibility of copying inputs on remote outputs of R series products without the aid of a master device (peer 2 peer function).

Model	Description	Communication protocols
R203	Multiprotocol 3PH Power Meter with 2 Ethernet ports and Universal Input	Modbus TCP-IP Modbus RTU Seneca P2P I/O Mirror with broadcast (UDP based)

R203 is a three-phase power meter capable of accepting in the current channels sensors of the following types:

- TA with current output
- TA with voltage output
- Rogowski

In addition to the main measurement values, it also provides current and voltage values up to the 55<sup>th</sup> harmonic.

## 1.2. COMMUNICATION PORT SPECIFICATIONS

### ETHERNET COMMUNICATION PORTS

<b>Number</b>	2
<b>Type</b>	10/100 Mbit
<b>Configuration</b>	Switch

### RS485 COMMUNICATION PORTS

<b>Number</b>	1
<b>Baudrate</b>	From 1200 to 115200 bit/s configurable
<b>Parity, Data bit, Stop bit</b>	Configurable
<b>Protocol</b>	Configurable between Modbus RTU Slave or Modbus TCP-IP to Modbus RTU passthrough

### USB COMMUNICATION PORT

<b>Number</b>	1
<b>Communication parameters</b>	115200 bit/s, 8 bits, No parity, 1 stop bit, station address 1
<b>Protocol</b>	Modbus RTU Slave

### COMMUNICATION PROTOCOLS SUPPORTED

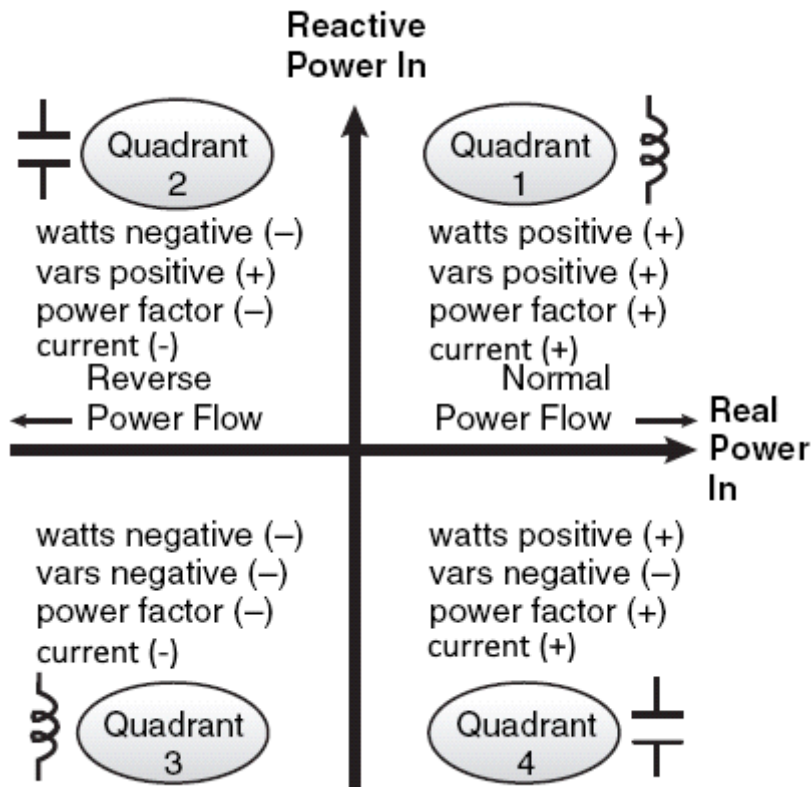
<b>Modbus RTU</b>	From RS485 and USB port
<b>Modbus TCP-IP</b>	From Ethernet 1 and 2
<b>Seneca IO Mirror</b>	From Ethernet 1 and 2



## 2. MEASUREMENTS AVAILABLE FROM ETHERNET/SERIAL

### 2.1. CONVENTIONS

The device provides the measurement values on all 4 quadrants, the conventions for the signs of the measurements used in the product are summarized in the following image:



Where:

quadrant Q1 relates to an inductive load with imported (absorbed) active energy, classic use case.

quadrant Q2 relates to a capacitive load with exported (generated) active energy.

quadrant Q3 relates to an inductive load with exported (generated) active energy.

quadrant Q4 relates to a capacitive load with imported (absorbed) active energy.

**2.2. INSTANTANEOUS VALUES**

Voltage	VL1-L2, VL2-L3, VL3-L1, VL1-N, VL2-N, VL3-N
Current (+/-):	IL1, IL2, IL3, IN
Active power (+/-)	P1, P2, P3, Ptot
Reactive power (+/-)	Q1, Q2, Q3 and Qtot
Apparent power	S1, S2, S3 and Stot
Power factor (inductive and capacitive)	PF1, PF2, PF3 and PFtot
Frequency	F1, F2, F3
Period	PER1, PER2, PER3
Voltage-Current phase shift [°]	Delta VIL1, VIL2, VIL3
Line voltage phase shift [°]	Delta VL1-L2, VL2-L3, VL3-L1
Voltage total harmonic distortion (THD)	THD % VL1-N, VL2-N, VL3-N
Current total harmonic distortion (THD)	THD % IL1, IL2, IL3
System voltage	$V_{sys} = (VL1+VL2+VL3)/3$
System current	$I_{sys} = (IL1+IL2+IL3)$
Status of digital inputs/outputs	-

**2.3. MEDIUM VALUES (NEL DEMAND TIME)**

Medium voltage	VL1-N, VL2-N, VL3-N, VL1-N MINIMUM, VL1-N MAXIMUM, VL2-N MINIMUM, VL2-N MAXIMUM, VL3-N MINIMUM, VL3-N MAXIMUM
Medium current (+/-)	IL1, IL2, IL3, IL1 MINIMUM, IL1 MAXIMUM, IL2 MINIMUM, IL2 MAXIMUM, IL3 MINIMUM, IL3 MAXIMUM
Medium active power (+/-)	P1, P2, P3, P1 MINIMUM, P1 MAXIMUM, P2 MINIMUM, P2 MAXIMUM, P3 MINIMUM, P3 MAXIMUM, Ptot
Medium reactive power (+/-)	Q1, Q2, Q3, Q1 MINIMUM, Q1 MAXIMUM, Q2 MINIMUM, Q2 MAXIMUM, Q3 MINIMUM, Q3 MAXIMUM, Qtot
Medium apparent power	S1, S2, S3, S1 MINIMUM, S1 MAXIMUM, S2 MINIMUM, S2 MAXIMUM, S3 MINIMUM, S3 MAXIMUM, Stot
Medium power factor (inductive and capacitive)	PF1, PF2, PF3, PF1 MINIMUM, PF1 MAXIMUM, PF2 MINIMUM, PF2 MAXIMUM, PF3 MINIMUM, PF3 MAXIMUM, PFtot
System voltage Medium	VSYS, VSYS MINIMO, VSYS MASSIMO
System current Average	ISYS, ISYS MINIMA, ISYS MASSIMA

**2.4. ABSOLUTE MAXIMUM / MINIMUM VALUES**

Voltage	VL1-N MINIMUM, VL1-N MAXIMUM, VL2-N MINIMUM, VL2-N MAXIMUM, VL3-N MINIMUM, VL3-N MAXIMUM
Current (+/-):	IL1 MINIMUM, IL1 MAXIMUM, IL2 MINIMUM, IL2 MAXIMUM, IL3 MINIMUM, IL3 MAXIMUM
Active power (+/-)	P1 MINIMUM, P1 MAXIMUM, P2 MINIMUM, P2 MAXIMUM, P3 MINIMUM, P3 MAXIMUM, Ptot
Reactive power (+/-)	Q1 MINIMUM, Q1 MAXIMUM, Q2 MINIMUM, Q2 MAXIMUM, Q3 MINIMUM, Q3 MAXIMUM, Qtot
Apparent power	S1 MINIMUM, S1 MAXIMUM, S2 MINIMUM, S2 MAXIMUM, S3 MINIMUM, S3 MAXIMUM, Stot
Power factor (inductive and capacitive)	PF1 MINIMUM, PF1 MAXIMUM, PF2 MINIMUM, PF2 MAXIMUM, PF3 MINIMUM, PF3 MAXIMUM, PFtot
System voltage Medium	VSYS, VSYS MINIMO, VSYS MASSIMO
System current Average	ISYS, ISYS MINIMA, ISYS MASSIMA

**2.5. COUNTERS:**

All counters are stored in non-volatile memory.

ACTIVE ENERGY [Wh]	IMPORTED ACTIVE ENERGY L1 (+) Q1/Q4 IMPORTED ACTIVE ENERGY L2 (+) Q1/Q4 IMPORTED ACTIVE ENERGY L3 (+) Q1/Q4 EXPORTED ACTIVE ENERGY L1 (-) Q2/Q3 EXPORTED ACTIVE ENERGY L2 (-) Q2/Q3 EXPORTED ACTIVE ENERGY L3 (-) Q2/Q3 TOT IMPORTED ACTIVE ENERGY (+) Q1/Q4 TOT EXPORTED ACTIVE ENERGY (-) Q2/Q3 TOTAL ACTIVE ENERGY BALANCE (+-)
REACTIVE ENERGY [VARh]	IMPORTED REACTIVE ENERGY L1 (+) Q1/Q2 IMPORTED REACTIVE ENERGY L2 (+) Q1/Q2 IMPORTED REACTIVE ENERGY L3 (+) Q1/Q2  EXPORTED REACTIVE ENERGY L1 (-) Q3/Q4 EXPORTED REACTIVE ENERGY L2 (-) Q3/Q4 EXPORTED REACTIVE ENERGY L3 (-) Q3/Q4  IMPORTED REACTIVE ENERGY L1 (+) Q1 IMPORTED REACTIVE ENERGY L2 (+) Q1

	IMPORTED REACTIVE ENERGY L3 (+) Q1  IMPORTED REACTIVE ENERGY L1 (-) Q2 IMPORTED REACTIVE ENERGY L2 (-) Q2 IMPORTED REACTIVE ENERGY L3 (-) Q2  IMPORTED REACTIVE ENERGY L1 (+) Q3 IMPORTED REACTIVE ENERGY L2 (+) Q3 IMPORTED REACTIVE ENERGY L3 (+) Q3  IMPORTED REACTIVE ENERGY L1 (-) Q4 IMPORTED REACTIVE ENERGY L2 (-) Q4 IMPORTED REACTIVE ENERGY L3 (-) Q4  TOT IMPORTED REACTIVE ENERGY (+) Q1/Q2 TOT EXPORTED REACTIVE ENERGY L3 (-) Q3/Q4 TOTAL REACTIVE ENERGY BALANCE (+-)
APPARENT ENERGY [VAh]	TOTAL APPARENT ENERGY BALANCE
DIGITAL COUNTER INPUT 1 AND INPUT 2	32-BIT COUNTERS MAXIMUM FREQUENCY 5 KHz

**2.6. HARMONIC ANALYSIS UP TO THE 55<sup>TH</sup>**

VOLTAGE HARMONICS FROM THE FUNDAMENTAL TO THE 55 <sup>TH</sup> [V]	VL1-N, VL2-N, VL3-N
CURRENT HARMONICS FROM THE FUNDAMENTAL TO THE 55 <sup>TH</sup> [A]	IL1, IL2, IL3
VOLTAGE HARMONICS FROM THE 2 <sup>ND</sup> TO THE 55 <sup>TH</sup> [% IN COMPARISON WITH THE FUNDAMENTAL]	VL1-N, VL2-N, VL3-N
CURRENT HARMONICS FROM THE 2 <sup>ND</sup> TO THE 55 <sup>TH</sup> [% IN COMPARISON WITH THE FUNDAMENTAL]	IL1, IL2, IL3

**3. MEASUREMENT AND CALCULATION TIMES**

**3.1. SAMPLING TIMES**

The sampling time of the current channels is 8000 samples per second.  
 The sampling time of the voltage channels is 8000 samples per second

### **3.2. *SETTLING TIMES FOR RMS VALUES***

We define the settling time as the time required for the RMS value to reach 99.5% of the full scale in response to an input from 0% to 100% of the full scale.

For RMS currents the settling time is 580 ms for TA input with current or voltage output

For RMS currents the settling time is 700 ms for Rogowski input

For RMS voltages the settling time is 580 ms.

### **3.3. *RESPONSE TIMES OF THE ANALOGUE AND MODBUS OUTPUTS***

Analogue Output Response Time: Typical 1 s (10-90%)

Modbus Response Time: Typical 5 ms

### **3.4. *UPDATING TIMES OF THE REGISTERS RELATED TO THE HARMONIC ANALYSIS***

The individual harmonic registers are updated every 30 seconds.

#### 4. MEASUREMENT PRECISION AT 23°C

Type of measurement	Precision at 23°C
Current (TA current output)	0.2% of the measurement with 1000:1 dynamic range
Current (TA voltage output)	0.2% of the measurement with 1000:1 dynamic range
Current (Rogowski)	0.5% of the measurement with 1000:1 dynamic range
Voltage	0.2% of the measurement with 1000:1 dynamic range
Active power (current measurement with current or voltage TA)	0.5% of the measurement with PF=1 and 2000:1 dynamic range
Reactive power (current measurement with TA)	0.5% of the measurement with PF=0 and 2000:1 dynamic range
Active power (current measurement with Rogowski)	0.5% of the measurement with PF=1 and 500:1 dynamic range
Reactive power (current measurement with Rogowski)	0.5% of the measurement with PF=0 and 500:1 dynamic range

#### 5. DATALOGGER

The device has two different data loggers:

the first is a sampling time data logger configurable with a maximum speed of 1 sample per second.

The second is an event data logger, that is, it records the type of event and the date/time when it occurred.

It is possible to download the data of both data loggers to a device via the web pages, the format is text separated by commas (csv standard).

##### 5.1. DATA DATALOGGER

The data logger allows you to store a maximum of 30 variables (tags) in the device's internal flash for a maximum number of about 55296 samples.

The sampling time can vary between 1 second (minimum) to 24 h (maximum).

It is possible to start or stop the datalogger via the status of a digital input.

##### 5.2. EVENT DATALOGGER

If you need to record the date/time of a particular event, you can use the event datalogger.

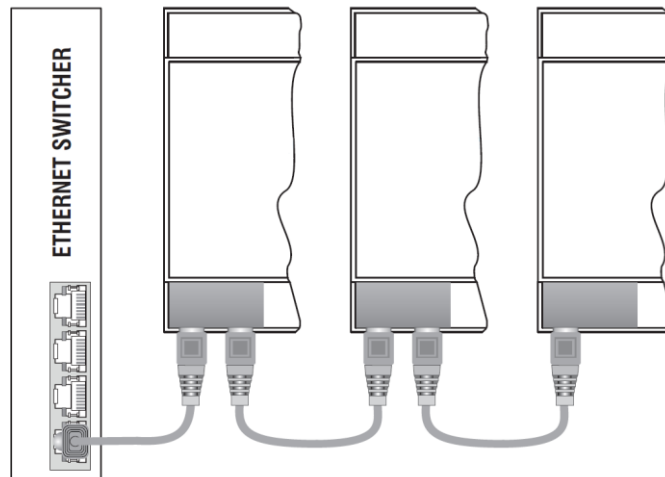
This can record a maximum of 32768 samples of an event with their time tags.

It is possible to define an event by indicating the variable to be monitored and its threshold (or alarm window).

## 6. WIRING OF ETHERNET CABLES

### 6.1. CHAIN ETHERNET CONNECTION (DAISY CHAIN)

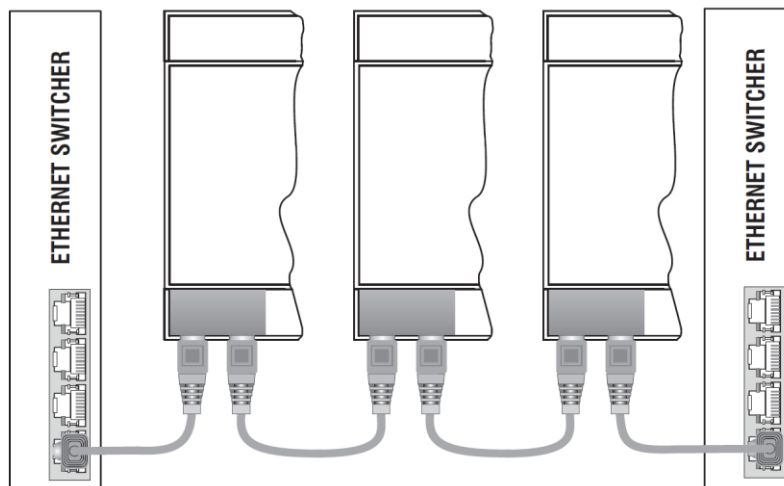
Using the daisy chain connection it is not necessary to use switches to connect the devices. A connection example of 3 devices is as follows:



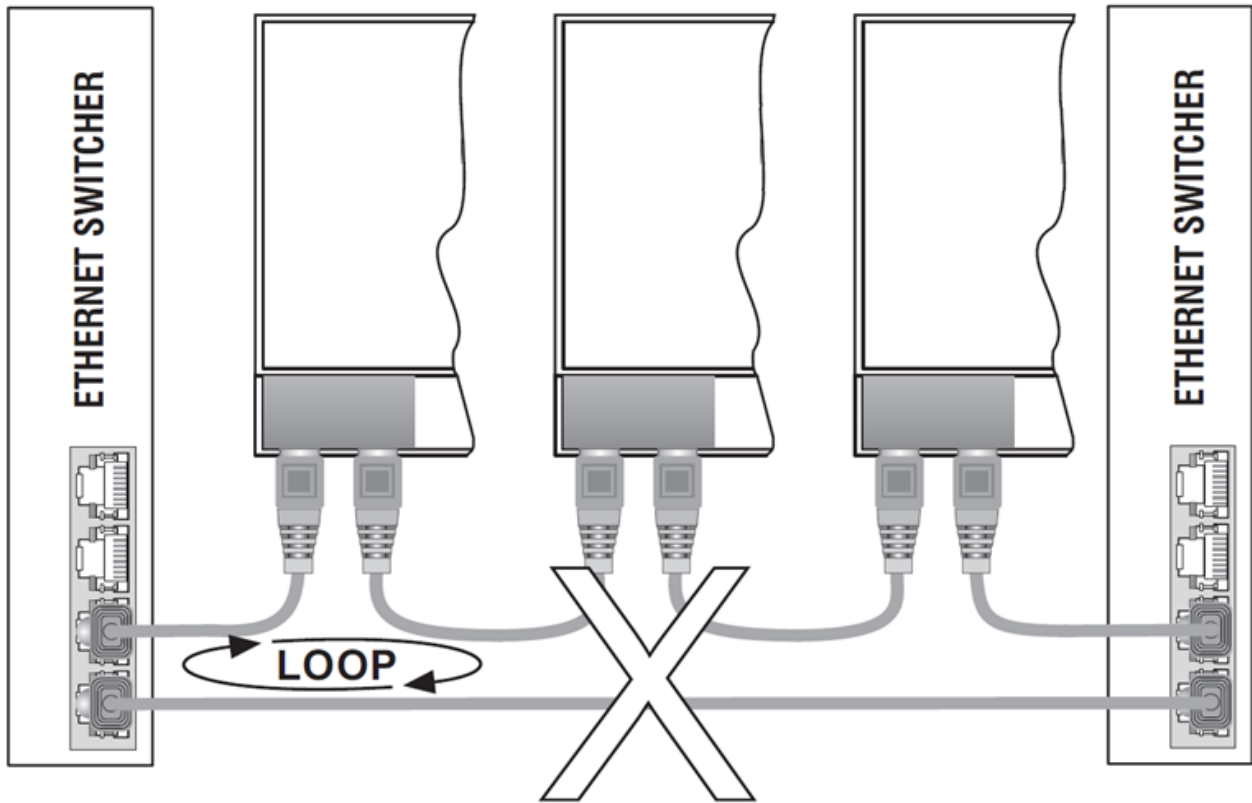
**! ATTENTION!**

**IT IS NOT POSSIBLE TO CREATE LOOPS WITH ETHERNET CABLES**

If it is necessary to connect the devices to the switches, correct wiring is as follows:



In the Ethernet wiring there must be no loop, otherwise the communication will not work, some examples of incorrect wiring are the following:



## 6.2. LAN FAULT-BYPASS FUNCTION

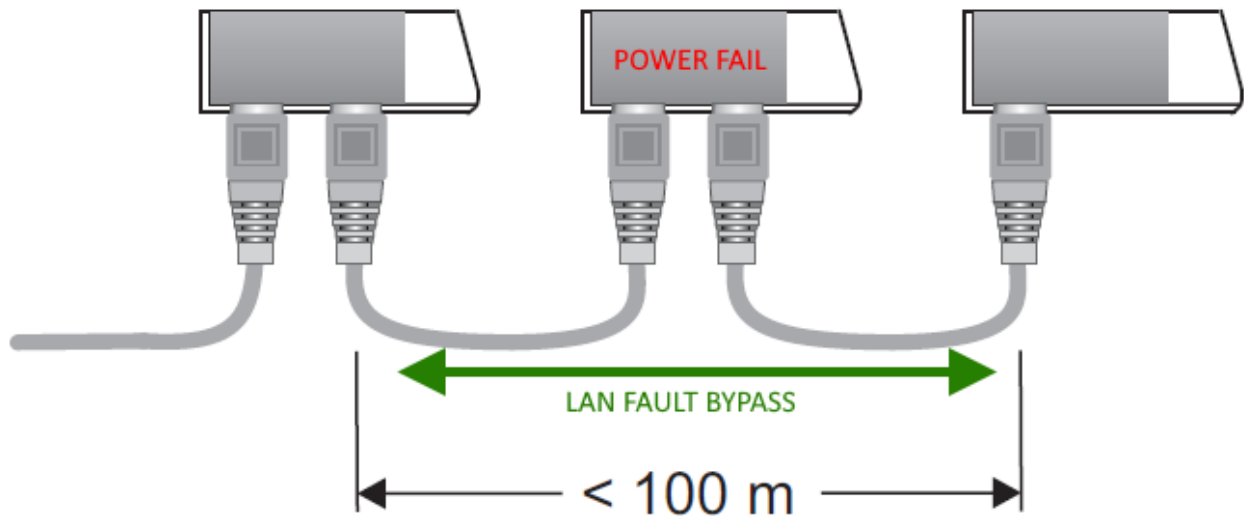
The LAN fault-bypass function allows you to keep the connection between the two Ethernet ports of the device ON, in the event of power failure problems.

If a device turns off, the chain is not interrupted and the devices downstream of the switched-off one will still be accessible.

This function has a limited duration: the connection remains active for a few days, typically 4.

The Lan fault-bypass function requires that the sum of the lengths of the two cables connected to the switched off module is less than 100m.





## 7. CONNECTION OF THE DEVICES TO A NETWORK

### 7.1. CONNECTION OF THE DEVICE TO A NETWORK

The factory configuration of the IP address is:

**Static address: 192.168.90.101**

Therefore, multiple devices must not be inserted on the same network with the same static IP.

If you want to connect multiple devices on the same network, you need to change the IP address configuration using Easy Setup 2 software.

### **ATTENTION!**

**DO NOT CONNECT 2 OR MORE FACTORY-CONFIGURED DEVICES ON THE SAME NETWORK, OR THE ETHERNET INTERFACE WILL NOT WORK (CONFLICT OF IP ADDRESSES 192.168.90.101)**

If the addressing mode with DHCP is activated and an IP address is not received within 1 minute, the device will set an IP address with a fixed error:

169.254.x.y

Where x.y are the last two values of the MAC ADDRESS.

This way it is possible to install more I/O of the R series and then configure the IP with the Easy Setup 2 software even on networks without a DHCP server.

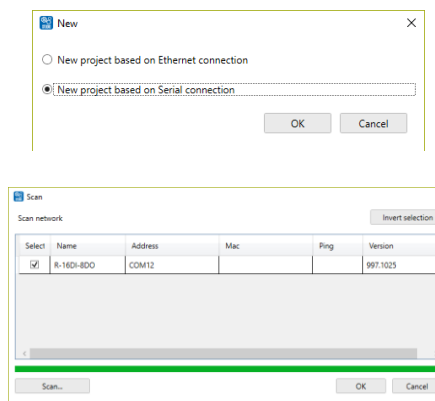
## 7.2. USE OF EASY SETUP 2 TO CONFIGURE DEVICES

The Easy Setup 2 software allows:

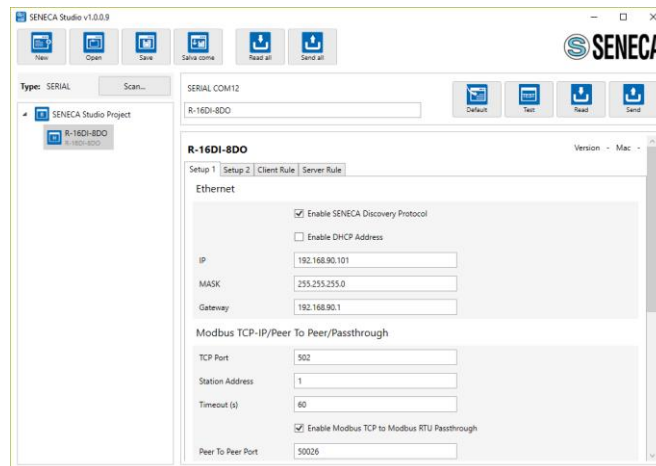
- Configuring R series devices via the USB port
- Searching and configuring Seneca R-series devices on an Ethernet network

In the case of a first installation we recommend following these steps:

- 1) Install the Easy Setup 2 software
- 2) Power and connect the device to the PC via the USB port



- 3) Configure the device with the IP address and the desired configuration



- 4) Install the device

If many devices are installed using the USB port:

- 1) Power and connect the device to the PC via the USB port
- 2) Configure the automatic address via DHCP from the search window
- 3) Install all the devices in the network

- 4) If there is no DHCP server in the network, after 1 minute the devices will set a fail IP address (see chapter 7.1)
- 5) Wait for all the device STS LEDs to be on steady.
- 6) At this point, using Easy Setup 2, create a new Ethernet project and find all the devices with the "search" button, then reconfigure the devices with the most appropriate work addresses.

In case of many devices using the Ethernet port:

- 1) Power and connect the first device to the PC via the Ethernet port
- 2) Perform the search
- 3) Change the address of the device with IP 192.168.90.101 from the search window
- 4) Connect the second device in Daisy Chain, search and return to step 2) until all devices are configured

The search software included in Easy Setup 2 works at Ethernet Layer 2 level (through the Seneca Discovery protocol) and it is therefore not necessary to have an Ethernet configuration compatible with the device you are looking for to change its IP. For the general configuration of the device it is necessary to have compatible configuration.

## 8. **I/O COPY USING THE PEER TO PEER FUNCTION WITHOUT WIRING**

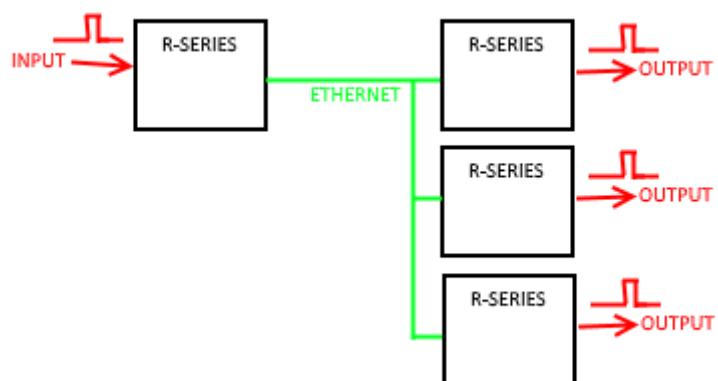
The "R" series devices can be used to copy and update in real time an input channel on a remote output channel without the aid of a master controller.

For example, a digital input can be copied to a remote digital output device:



Note that no controller is required because the communication is managed directly by the R series devices. It is possible to make a more sophisticated connection, for example it is possible to copy the inputs to different R-series remote devices (from Device 1 Input 1 to Device 2 Output1, Device 1 Input 2 to Device 3 Output 1 etc ...)

It is also possible to copy an input to an output of multiple remote devices:



Each R-series device can send and receive a maximum of 32 inputs.

## 9. WEB SERVER

### 9.1. ACCESS TO THE WEBSERVER

Access to the web server takes place using a web browser and entering the IP address of the device. To find out the IP address of the device, use the "search" function of the "Easy Setup 2" software or "Seneca Discovery Device" software.

Using the factory-set configuration, you have:

<http://192.168.90.101>

On first access the user name and password will be requested.

The default values are:

User Name: admin

Password: admin

 **ATTENTION!**

**AFTER THE FIRST ACCESS CHANGE USER NAME AND PASSWORD IN ORDER TO PREVENT ACCESS TO THE DEVICE TO UNAUTHORIZED PEOPLE.**

 **ATTENTION!**

**THE ACCOUNT USER CAN ONLY: TO CHANGE THE CONFIGURATION OF THE DEVICE OR RESET THE INTERNAL COUNTERS, IT IS NECESSARY TO ENTER THE ADMIN PASSWORD (SEE THE WEB SERVER'S "ADMIN CREDENTIAL" PAGE).**

 **ATTENTION!**

**IF THE WEB SERVER ACCESS PARAMETERS HAVE BEEN LOST, IT IS NECESSARY TO CONNECT THE DEVICE WITH THE EASY SETUP 2 SOFTWARE THROUGH THE USB PORT AND REINSTALL THE DEFAULT CONFIGURATION (SEE CHAPTER 13.1)**

## 10. CONNECTION DIAGNOSTICS

The device includes advanced connection diagnostics available on the webserver.

If the system detects a connection error, the corresponding LED will flash, at this point it is possible to connect to the webserver to check the reason for the error:

**VOLTAGE CYCLIC DIRECTION** If it is "Wrong" it indicates that the connection of the voltmeters does not comply with the cyclic direction R (L1) -> S (L2) -> T (L3). To solve the problem, wire the voltage inputs again.

If it is "Correct" go to the next item.

**CURRENT L1..L3** If it is "STRAIGHT" it indicates that the TA relating to the i-th input is connected correctly. If it is "INVERTED" it indicates that the TA relating to the i-th input is reversed (reverse the wiring of the TA terminals).

When the three currents are "STRAIGHT" it is possible to move on to the next item.



### ATTENTION!

IF THE DEVICE IS CONNECTED TO A GENERATOR, IT IS CORRECT THAT CURRENT L1..L3 ARE ALL "INVERTED".

IN THIS CASE, THE "ENERGY" FIELD MUST BE ON "PRODUCTION".

**L1..L3 CONNECTION** If this parameter is "CORRECT" it means that the L-i th current input and the L-i th voltage input have been wired correctly.

In the case of "ERROR" it means that the phase connected to the current is different from the voltage (for example phase L1 in the current and phase L2 in the voltage etc.).

It is, in fact, possible to wire complying with the cyclic direction of the voltages and the correct direction of the TAs but have no correspondence between the voltage and current phases.

In this case, wire the device again (for example, it is possible to move the voltmeters by 1 position, always complying with the cyclic direction until this error disappears).

In the case of non-standard installation configurations, a parameter can be configured to ignore diagnostics.

## 11. DEVICE CONFIGURATION

To configure the device, access the web server and select the section you are interested in.

After a modification to the configuration has been made, the changes must be confirmed with the "**APPLY**" button entering the administrator account and password.

The **Reboot** button reboots the device (not necessary in the event of a configuration change).

The **Default** button returns all the page parameters to the default settings.

### 11.1. COMMUNICATION SETUP SECTION

#### DHCP (ETH) (default: Disabled)

Sets the DHCP client to get an IP address automatically.

**IP ADDRESS STATIC (ETH) (default: 192.168.90.101)**

Sets the device static address. Careful not to enter devices with the same IP address into the same network.

**IP MASK STATIC (ETH) (default: 255.255.255.0)**

Set the mask for the IP network.

**GATEWAY ADDRESS STATIC (ETH) (default: 192.168.90.1)**

Set the gateway address.

**PROTECT CONFIGURATION (default: Disabled)**

Allows you to enable or disable password protection for reading and writing the configuration (including the IP address) using the Easy Setup 2 software or Seneca Discovery Tool. The password is the same one that allows accessing the web server.

 **ATTENTION!**

**IF THE CONFIGURATION PROTECTION IS ENABLED IT WILL BE IMPOSSIBLE TO READ/WRITE THE CONFIGURATION OF THE DEVICE WITHOUT KNOWING THE ADMINISTRATOR PASSWORD. IF THE PASSWORD HAS BEEN LOST, THE DEVICE CAN BE RETURNED TO ITS DEFAULT SETTINGS BY CONNECTING IT VIA USB TO THE EASY SETUP 2 SOFTWARE (SEE CHAPTER 13.1)**

**MODBUS SERVER PORT (ETH) (default: 502)**

Sets the communication port for the Modbus TCP-IP server.

**MODBUS SERVER STATION ADDRESS (ETH) (default: 1)**

Active only if Modbus Passthrough is also active, it sets the station address of the modbus TCP-IP server.

 **ATTENTION!**

**THE MODBUS SERVER WILL ANSWER ANY STATION ADDRESS ONLY IF THE MODBUS PASSTHROUGH MODE IS DISABLED.**

**MODBUS PASSTHROUGH (ETH) (default: disabled)**

Sets the conversion mode from Modbus TCP-IP to Modbus RTU serial (see chapter 14).

**MODBUS TCP-IP CONNECTION TIMEOUT [sec] (ETH) (default: 60)**

Sets the TCP-IP connection timeout for the Modbus TCP-IP server and Passthrough modes.

**P2P SERVER PORT (default: 50026)**

Sets the communication port for the P2P server.

**WEBSERVER USER NAME (default: admin)**

Sets the user name to access the web server.

**CONFIGURATION/WEBSERVER PASSWORD (default: admin)**

Sets the password to access the web server and to read/write the configuration (if enabled).

**WEBSERVER PORT (default: 80)**

Sets the communication port for the web server.

**BAUDRATE MODBUS RTU (SER) (default: 38400 baud)**

Sets the baud rate for the RS485 communication port.

**DATA MODBUS RTU (SER) (default: 8 bit)**

Sets the number of bits for the RS485 communication port.

**PARITY MODBUS RTU (SER) (default: None)**

Sets the parity for the RS485 communication port.

**STOP BIT MODBUS RTU (SER) (default: 1 bit)**

Sets the number of stop bits for the RS485 communication port.

**MODBUS PASSTHROUGH SERIAL TIMEOUT (default: 100ms)**

Active only if passthrough mode is activated, sets the maximum waiting time before sending a new packet from TCP-IP to the serial port. It must be set according to the longest response time of all the devices present on the RS485 serial port.

 **ATTENTION!**

**THE USB PORT CONFIGURATION PARAMETERS CANNOT BE MODIFIED AND ARE BAUDRATE:  
115200  
DATA: 8 BIT  
PARITY: NONE  
STOP BIT: 1  
MODBUS RTU PROTOCOL**



## 11.2. MEASURES SETUP SECTION

### **CONNECTION TYPE**

Sets the type of connection to make.

### **TA TYPE**

Selects the type of TA sensor to use between:

TA with current output

TA with MV output

Rogowski sensor

### **TA SECONDARY VALUE**

Sets the possible TA ratio

### **TV TYPE**

Sets the type of voltage transformer

### **NETWORK FREQUENCY [Hz]**

Sets the system to 50 or 60 Hz.

### **AVERAGE POWER WINDOW**

Sets the time on which to work the average values

### **USER CALIBRATION VOLTAGE**

Sets a possible multiplication coefficient for the voltage measurement.

### **USER CALIBRATION CURRENT**

Sets a possible multiplication coefficient for the current measurement.

### **CUTOFF CURRENT [A]**

Sets a current (to the primary) value below which counters are stopped.

### **USER CALIBRATION ACTIVE ENERGY**

Sets a possible multiplication coefficient for the active energy.

### **USER CALIBRATION REACTIVE ENERGY**

Sets a possible multiplication coefficient for the reactive energy.

### 11.3. ANALOGUE AND DIGITAL OUTPUT SETUP SECTION

**ALARM EVENT MODE**

Selects the maximum, minimum or window alarm event.

**ALARM RETURN EVENT**

Enables or not also the alarm exit event

**ALARM SOURCE**

Selects the variable to use for the alarm event

**ALARM HIGH THRESHOLD**

Sets the threshold representing the high alarm event.

**ALARM LOW THRESHOLD**

Sets the threshold representing the low alarm event.

**HYSTERESIS**

Represents the alarm hysteresis

**ANALOGUE OUTPUT RETRANSMITTED PHASE**

Selects which phase is brought to the analogue output (selectable between L1, L2, L3)

**ANALOGUE OUTPUT RETRANSMITTED VALUE**

Selects which variable is brought to the analogue output (selectable between voltage RMS, current RMS, active power, power factor, reactive factor, apparent power, frequency)

**ANALOGUE OUTPUT TYPE**

Selects the type of analogue output

**DIGITAL OUTPUT LOGIC**

Selects the output logic (normally high or low).

**DIGITAL OUTPUT FUNCTION**

Selects the type of function the digital output must perform

**DIGITAL OUTPUT SOURCE**

Selects the variable to take to the analogue output

## **11.4. DIGITAL INPUT SETUP SECTION**

### **DIGITAL INPUT 1 MODE**

Selects the behaviour of the digital input 1 if input or start/stop for the datalogger.

In the "start/stop datalogger" mode when the digital input goes high the datalogger starts recording (start), when the digital input goes low the datalogger stops (stop).

### **DIGITAL INPUT 2 MODE**

Selects the behaviour of the digital input 2 if input or start/stop for the datalogger.

In the "start/stop datalogger" mode when the digital input goes high the datalogger starts recording (start), when the digital input goes low the datalogger stops (stop).

### **DIGITAL INPUT FILTER [ms]**

Sets the filter time for the digital inputs, used as filtering for the counters.

## **11.5. DATALOGGER SETUP SECTION**

### **DATA LOGGER SAMPLE TIME**

Enables/disables and sets the sampling time for the time data logger.

### **DATA LOGGER ALARM EVENT**

Enable/Disable and set the operation for the event data logger

### **DATA LOGGER SOURCE 1...30**

Selects the i-th variable to be inserted in the time datalogger

## **11.6. FTP SETUP SECTION**

In this section you can configure the sending of timed logs to an FTP server. The logs are sent without encryption. Pressing the "FTP SEND NOW" button will force the sending of a log file, and it will be possible to test the operation of the data entered.

### **FTP DATALOGGER SENDING**

Here it is possible to select the frequency of log sending, in case of weekly sending it is also possible to choose which days and at what time to send.

### **FTP SERVER**

Set the IP or name of the FTP server.

### **FTP SERVER PORT**

Set the FTP server port

**FTP USER NAME**

Sets the user name for FTP server access.

**FTP PASSWORD**

Sets the password for server FTP access.

**FTP FOLDER**

Sets the folder to which logs are written (leave blank for root).

**FTP DEVICE NAME**

Set the name you want to give to the R203, this will be the initial part of the file name in the server.

## **ATTENTION!**

**IN THE EVENT OF A LACK OF CONNECTION WITH THE FTP SERVER, THE DEVICE WILL CONTINUE TO RECORD LOGS AS LONG AS THERE IS SPACE IN THE MEMORY. WHEN THE CONNECTION IS RESUMED, IT WILL SEND THE LOGS NOT YET SENT IN A SINGLE FILE**

## **ATTENTION!**

**THE FORMAT OF THE FILES SENT IS THE SAME AS THAT OBTAINED BY DOWNLOADING THE TIME DATABASE FROM A WEBSERVER (CSV FORMAT).**

### **11.7. DIAGNOSTIC CONNECTION SECTION**

In this section it is possible to check whether the connection to the device has been made correctly.

It is also possible to exchange the CURRENT - VOLTAGE relationship of each phase without rewiring the system.

In the case of special connections, it is possible to set the CONNECTION DIAGNOSTIC parameter to "DISABLE" so that the system ignores connection errors.

### **11.8. ADMIN CREDENTIALS SECTION**

**NEW ADMIN PASSWORD**

In this section it is possible to change the administrator password required to reset the counters and datalogger data.

## 12. **DOWNLOADING THE DATA LOGGER FILES**

In the "Data logger view" section you can download the entire timed database in csv text format.

In the "Data logger event view" section you can download the entire event database in csv text format.

### **ATTENTION!**

**THE TEXT FILES DOWNLOADED BY THE DATA LOGGER HAVE THE DEFAULT .CGI EXTENSION. TO USE THEM WITH EXCEL-TYPE SOFTWARE, IT IS POSSIBLE TO RENAME THEM AS .CSV**

## 13. **USB CONNECTION**

The front USB port allows a simple connection using the Modbus RTU slave protocol, the communication parameters for the USB port cannot be modified:

Baud rate: 115200

Address of the Modbus RTU station: 1

Data Bit: 8

Stop bit: 1

Drivers for Windows PC can be downloaded from the device's web page.

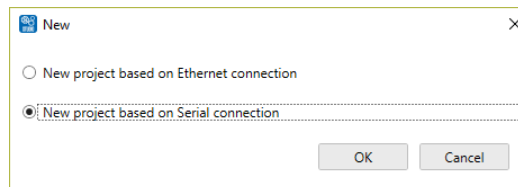
The drivers are still present in the "Easy Setup 2" software installation.

### 13.1. **RESETTING THE DEVICE WITH A LOST PASSWORD VIA USB PORT**

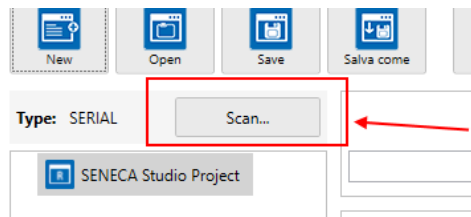
For security reasons, if the password is lost, it is possible to return the device to the factory configuration only using the USB connection.

Follow the procedure below:

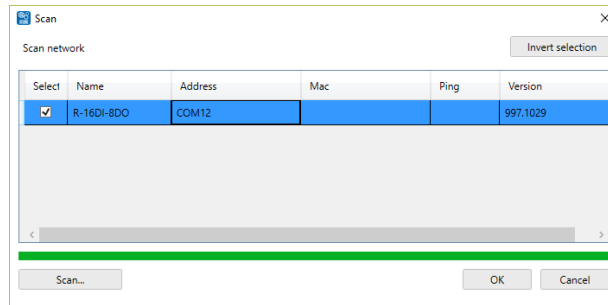
- 1) Connect the device to the Easy Setup 2 software via the USB port
- 2) Select the Serial connection with OK



- 3) Press the "SCAN" button

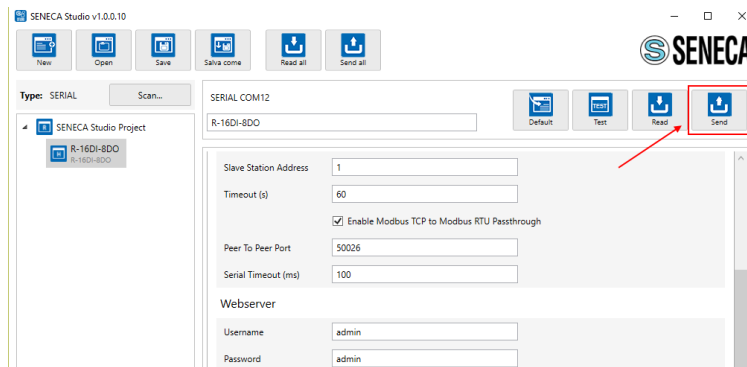


4) Add the device to the project with OK



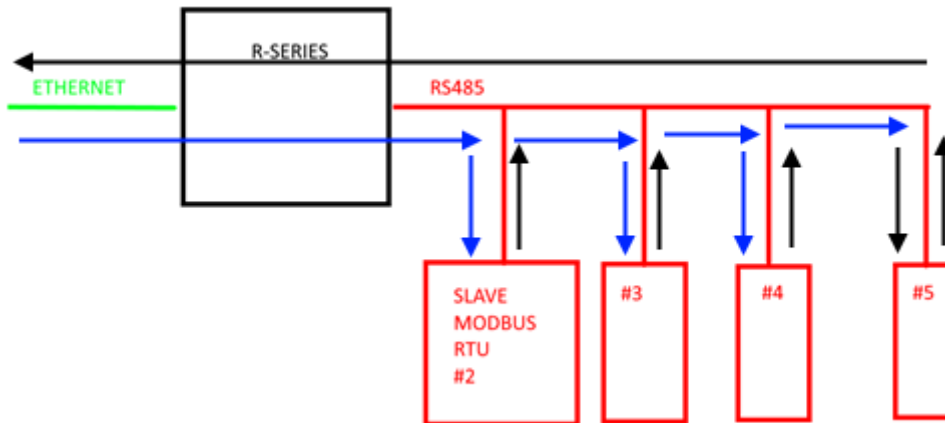
5) At this point, for security reasons, it is not possible to read the current configuration without knowing the password but it is possible to overwrite it

6) Send the new configuration and the new username/password login credentials.



## 14. MODBUS PASSTHROUGH

Thanks to the Modbus Passthrough function it is possible to extend the amount of I/O available in the device via the RS485 port and the Modbus RTU slave protocol, for example by using the Seneca Z-PC series products. In this mode the RS485 port stops working as Modbus RTU slave and the device becomes a Modbus TCP-IP gateway to Modbus RTU serial:



Each Modbus TCP-IP request with station address other than that of the R series device is converted into a serial packet on the RS485 and, in the case of a reply, it is turned over to TCP-IP.

Therefore, it is no longer necessary to purchase gateways to extend the I/O number or to connect already available Modbus RTU I/O.

## 15. **FIRMWARE UPDATE**

In the “Update” section it is possible to update the firmware using a binary file that can be downloaded directly from the Seneca website in the download section of the device.

## 16. **MODBUS COMMUNICATION PROTOCOL**

The supported communication protocol is:

- Modbus RTU Slave (from both the RS485 and USB ports)
- Modbus TCP-IP Server (from Ethernet ports)

For more information on these protocols, see the website:

<http://www.modbus.org/specs.php>.

### 16.1. **SUPPORTED MODBUS FUNCTION CODES**

The following Modbus functions are supported:

- Read Holding Register (function 3)
- Write Single Register (function 6)
- Write Multiple registers (function 16)

 **ATTENTION!**

All 32-bit values are contained in 2 consecutive registers

 **ATTENTION!**

All 64-bit values are contained in 4 consecutive registers

 **ATTENTION!**

Any registers with RW\* (in flash memory) can be written up to about 10000 times  
The PLC/Master Modbus programmer must not exceed this limit



## 17. **MODBUS REGISTER TABLE**

The following abbreviations are used in the register tables:

MS = More significant
LS = Less significant
MSW = Most Significant Word (16bit)
LSW = Least Significant Word (16bit)
MMSW = "Most" Most Significant Word (16bit )
LLSW = "Least" Least Significant Word (16bit)
MSW = 8 most significant bits
LSB = 8 least significant bits
MSBIT = Most significant bit
LSBIT = Least significant bit
RO = Register in read-only
RW = Read/write register
RW** = Reading and writing register contained in flash memory, writable a maximum of 10000 times.
Unsigned 16 bit = unsigned integer register, can take values from 0 to 65535
Signed 16 bit = signed integer register can take values from -32768 to +32767
Float 32 bits = 32-bit single-precision floating point register (IEEE 754) <a href="https://en.wikipedia.org/wiki/IEEE_754">https://en.wikipedia.org/wiki/IEEE_754</a>
BIT = Boolean registry, can be 0 (false) or 1 (true)

### 17.1. **NUMBERING OF "0-BASED" OR "1-BASED" MODBUS ADDRESSES**

According to the Modbus standard the Holding Register registers are addressable from 0 to 65535, there are 2 different conventions for numbering the addresses: "0-BASED" and "1-BASED".

For greater clarity, Seneca shows its register tables in both conventions.

 **ATTENTION!**

**CAREFULLY READ THE DOCUMENTATION OF THE MODBUS MASTER DEVICE IN ORDER TO UNDERSTAND WHICH OF THE TWO CONVENTIONS THE MANUFACTURER HAS DECIDED TO USE**

**17.2. NUMBERING OF MODBUS ADDRESSES WITH "0-BASED" CONVENTION**

The numbering is:

<b>HOLDING REGISTER MODBUS ADDRESS (OFFSET)</b>	<b>MEANING</b>
0	FIRST REGISTER
1	SECOND REGISTER
2	THIRD REGISTER
3	FOURTH REGISTER
4	FIFTH REGISTER

Therefore the first register is at address 0.

In the following tables, this convention is indicated with **"ADDRESS OFFSET"**.

**17.3. NUMBERING OF MODBUS ADDRESSES WITH "1 BASED" CONVENTION (STANDARD)**

The numbering is that established by the Modbus consortium and is of the type:

<b>HOLDING REGISTER MODBUS ADDRESS 4x</b>	<b>MEANING</b>
40001	FIRST REGISTER
40002	SECOND REGISTER
40003	THIRD REGISTER
40004	FOURTH REGISTER
40005	FIFTH REGISTER

In the following tables this convention is indicated with **"ADDRESS 4x"** since a 4 is added to the address so that the first Modbus register is 40001.

A further convention is also possible where the number 4 is omitted in front of the register address:

<b>HOLDING MODBUS ADDRESS WITHOUT 4x</b>	<b>MEANING</b>
1	FIRST REGISTER
2	SECOND REGISTER
3	THIRD REGISTER
4	FOURTH REGISTER
5	FIFTH REGISTER

**17.4. BIT CONVENTION WITHIN A MODBUS HOLDING REGISTER**

A Modbus Holding Register consists of 16 bits with the following convention:

BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT 10	BIT 9	BIT 8	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
-----------	-----------	-----------	-----------	-----------	-----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

For instance, if the value of the register in decimal is

12300

the value 12300 in hexadecimal is:

0x300C

the hexadecimal 0x300C in binary value is:

11 0000 0000 1100

So, using the above convention, we get:

BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT 10	BIT 9	BIT 8	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0

### 17.5. MSB and LSB BYTE CONVENTION WITHIN A MODBUS HOLDING REGISTER

A Modbus Holding Register consists of 16 bits with the following convention:

BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT 10	BIT 9	BIT 8	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
-----------	-----------	-----------	-----------	-----------	-----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

LSB Byte (Least Significant Byte) defines the 8 bits ranging from Bit 0 to Bit 7 included, we define MSB Byte (Most Significant Byte) the 8 bits ranging from Bit 8 to Bit 15 inclusive:

BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT 10	BIT 9	BIT 8	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE MSB								BYTE LSB							

### 17.6. REPRESENTATION OF A 32-BIT VALUE IN TWO CONSECUTIVE MODBUS HOLDING REGISTERS

The representation of a 32-bit value in the Modbus Holding Registers is made using 2 consecutive Holding Registers (a Holding Register is a 16-bit register). To obtain the 32-bit value it is therefore necessary to read two consecutive registers:

For example, if register 40064 contains the 16 most significant bits (MSW) while register 40065 contains the least significant 16 bits (LSW), the 32-bit value is obtained by composing the 2 registers:

BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT 10	BIT 9	BIT 8	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
40064 MOST SIGNIFICANT WORD															

BIT 15	BIT 14	BIT 13	BIT 12	BIT 11	BIT 10	BIT 9	BIT 8	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
40065 LEAST SIGNIFICANT WORD															

$$Value_{32bit} = Register_{LSW} + (Register_{MSW} * 65536)$$

In the reading registers it is possible to swap the most significant word with the least significant word, therefore it is possible to obtain 40064 as LSW and 40065 as MSW.

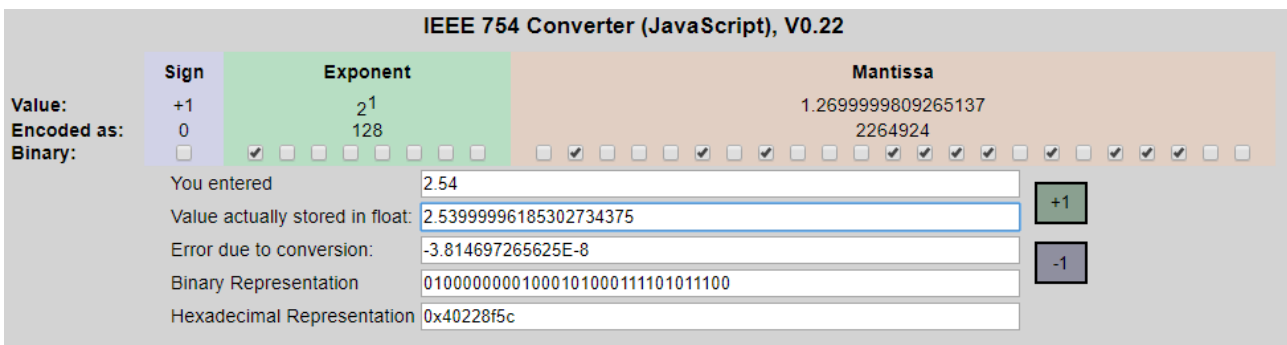
### 17.7. TYPE OF 32-BIT FLOATING POINT DATA (IEEE 754)

The IEEE 754 standard ([https://en.wikipedia.org/wiki/IEEE\\_754](https://en.wikipedia.org/wiki/IEEE_754)) defines the format for representing floating point numbers.

As already mentioned, since it is a 32-bit data type, its representation occupies two 16-bit holding registers.

To obtain a binary / hexadecimal conversion of a floating point value it is possible to refer to an online converter at this address:

<http://www.h-schmidt.net/FloatConverter/IEEE754.html>



The screenshot shows the IEEE 754 Converter interface. The 'Value' field contains '2.54'. The 'Encoded as' field shows '0'. The 'Binary' field shows a 32-bit representation: 0100000001000101000111101011100. The 'Hexadecimal Representation' field shows '0x40228f5c'. The interface also displays the internal IEEE 754 components: Sign (+1), Exponent (2<sup>1</sup>, 128), and Mantissa (1.2699999809265137, 2264924).

Using the last representation the value 2.54 is represented at 32 bits as:

0x40228F5C

Since we have 16-bit registers available, the value must be divided into MSW and LSW:

0x4022 (16418 decimal) are the 16 most significant bits (MSW) while 0x8F5C (36700 decimal) are the 16 least significant bits (LSW).

**17.8. R203: MODBUS 4X HOLDING REGISTERS TABLE (FUNCTION CODE 3)**

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40001	0	MACHINE-ID	-	Device ID	RO	UNSIGNED 16BIT
40002	1	FW REVISION (Maior/Minor)	-	FW revision	RO	UNSIGNED 16BIT
40003	2	FW REVISION (Fix/Build)	-	FW revision	RO	UNSIGNED 16BIT
40004	3	FW CODE	-	FW code	RO	UNSIGNED 16BIT
40005	4	FW RESERVED	-	-	RO	UNSIGNED 16BIT
40006	5	FW RESERVED	-	-	RO	UNSIGNED 16BIT
40007	6	BOARD-ID	-	HW revision	RO	UNSIGNED 16BIT
40008	7	BOOT REVISION (Maior/Minor)	-	FW Bootloader revision	RO	UNSIGNED 16BIT
40009	8	BOOT REVISION (Fix/Build)	-	FW Bootloader revision	RO	UNSIGNED 16BIT
40010	9	BOOT CODE	-	Bootloader FW code	RO	UNSIGNED 16BIT
40011	10	RESERVED	-	-	RO	UNSIGNED 16BIT
40012	11	RESERVED	-	-	RO	UNSIGNED 16BIT
40013	12	COMMAND AUX 3H	-	COMMAND REGISTER 3	RW	UNSIGNED 16BIT
40014	13	COMMAND AUX 3L	-		RW	UNSIGNED 16BIT
40015	14	COMMAND AUX 2	-	COMMAND REGISTER 2	RW	UNSIGNED 16BIT
40016	15	COMMAND AUX 1	-		RW	UNSIGNED 16BIT
40017	16	COMMAND	-	Supported command list: 49568 decimal to perform a Reboot	RW	UNSIGNED 16BIT

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40018	17	STATUS	-	BIT0 -> Errore senso ciclico fasi (1 ERR, 0 OK) BIT1 -> ALLARME ( 1 ATTIVO, 0 NON ATTIVO) BIT2 -> Stato DOUT1 ( 1 ATTIVO, 0 NON ATTIVO) BIT3 -> Stato DOUT2 ( 1 ATTIVO, 0 NON ATTIVO) BIT4 -> STATO DIN1 ( 1 alto, 0 basso) BIT5 -> STATO DIN2 ( 1 alto, 0 basso) BIT6 -> Cutoff corrente (1 attivo, 0 non attivo) BIT 7 -> Errore corrente L1 (1 TA connesso rovescio, 0 TA connesso OK) BIT 8 -> Errore corrente L2 (1 TA connesso rovescio, 0 TA connesso OK) BIT 9 -> Errore corrente L3 (1 TA connesso rovescio, 0 TA connesso OK) BIT 10 -> Errore connessione Linea 1 Tensione/Corrente (1 Errore, 0 OK) BIT 11 -> Errore connessione Linea 2 Tensione/Corrente (1 Errore, 0 OK) BIT 12 -> Errore connessione Linea 3 Tensione/Corrente (1 Errore, 0 OK)	RW	UNSIGNED 16BIT
40019	18	RESERVED	-	-	RW	UNSIGNED 16BIT
40020	19	RESERVED	-	-	RW	UNSIGNED 16BIT
40021	20	RESERVED	-	-	RW	UNSIGNED 16BIT

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40022	21	INPUT VALUES	-	Status of digital inputs 1 and 2 Bit[0] = INPUT1 Bit[1] = INPUT2	RW	UNSIGNED 16BIT
40023	22	Output	-	Status of digital outputs Bit[0] = OUTPUT1 Bit[1] = OUTPUT2	RW	UNSIGNED 16BIT
40024	23	RESERVED	-	-	RW	UNSIGNED 16BIT
40025	24	RESERVED	-	-	RW	UNSIGNED 16BIT
40026	25	RESERVED	-	-	RW	UNSIGNED 16BIT
40027	26	ANALOG OUTPUT MANUAL	-	When the analogue output is in pilot "manual" mode the output 0=0% 4096=100%	RW	UNSIGNED 16BIT
40101	100	V RMS [V] MSW	L1-L2	RMS phase-to-phase voltage measurement in [V]	RO	FLOAT32
40102	101	V RMS [V] LSW			RO	
40103	102	V RMS [V] MSW	L2-L3	RMS phase-to-phase voltage measurement in [V]	RO	FLOAT32
40104	103	V RMS [V] LSW			RO	
40105	104	V RMS [V] MSW	L3-L1	RMS phase-to-phase voltage measurement in [V]	RO	FLOAT32
40106	105	V RMS [V] LSW			RO	
40107	106	I RMS [A] MSW	L1	RMS current measurement in [A]	RO	FLOAT32
40108	107	I RMS [A] LSW			RO	
40109	108	I RMS [A] MSW	L2	RMS current measurement in [A]	RO	FLOAT32
40110	109	I RMS [A] LSW			RO	
40111	110	I RMS [A] MSW	L3	RMS current measurement in [A]	RO	FLOAT32
40112	111	I RMS [A] LSW			RO	
40113	112	I RMS [A] MSW	N	RMS current measurement in [A]	RO	FLOAT32
40114	113	I RMS [A] LSW			RO	
40115	114	V-I PHASE [°] MSW	L1	Measurement of the angle in [°] between Voltage and Current	RO	FLOAT32
40116	115	V-I PHASE [°] LSW			RO	
40117	116	V-I PHASE [°] MSW	L2	Measurement of the angle in [°] between Voltage and Current	RO	FLOAT32
40118	117	V-I PHASE [°] LSW			RO	
40119	118	V-I PHASE [°] MSW	L3	Measurement of the angle in [°] between Voltage and Current	RO	FLOAT32
40120	119	V-I PHASE [°] LSW			RO	
40121	120	P ACTIVE POWER [W] MSW	L1		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40122	121	P ACTIVE POWER [W] LSW		Phase Active Power measurement in [W] "+" sign = Absorbed Active Power "-" sign = Generated Active Power	RO	
40123	122	P ACTIVE POWER [W] MSW	L2	Phase Active Power measurement in [W] "+" sign = Absorbed Active Power "-" sign = Generated Active Power	RO	FLOAT32
40124	123	P ACTIVE POWER [W] LSW			RO	
40125	124	P ACTIVE POWER [W] MSW	L3	Phase Active Power measurement in [W] "+" sign = Absorbed Active Power "-" sign = Generated Active Power	RO	FLOAT32
40126	125	P ACTIVE POWER [W] LSW			RO	
40127	126	Q REACTIVE POWER [VAR] MSW	L1	Phase Reactive Power measurement in [VAR]	RO	FLOAT32
40128	127	Q REACTIVE POWER [VAR] LSW			RO	
40129	128	Q REACTIVE POWER [VAR] MSW	L2	Phase Reactive Power measurement in [VAR]	RO	FLOAT32
40130	129	Q REACTIVE POWER [VAR] LSW			RO	
40131	130	Q REACTIVE POWER [VAR] MSW	L3	Phase Reactive Power measurement in [VAR]	RO	FLOAT32
40132	131	Q REACTIVE POWER [VAR] LSW			RO	
40133	132	S APPARENT POWER [VA] MSW	L1	Phase Apparent Power measurement in [VA]	RO	FLOAT32
40134	133	S APPARENT POWER [VA] LSW			RO	
40135	134	S APPARENT POWER [VA] MSW	L2	Phase Apparent Power measurement in [VA]	RO	FLOAT32
40136	135	S APPARENT POWER [VA] LSW			RO	
40137	136	S APPARENT POWER [VA] MSW	L3	Phase Apparent Power measurement in [VA]	RO	FLOAT32
40138	137	S APPARENT POWER [VA] LSW			RO	
40139	138	PF POWER FACTOR MSW	L1	Phase power factor measurement "+" sign = User "-" sign = Generator	RO	FLOAT32
40140	139	PF POWER FACTOR LSW			RO	
40141	140	PF POWER FACTOR MSW	L2	Phase power factor measurement "+" sign = User "-" sign = Generator	RO	FLOAT32
40142	141	PF POWER FACTOR LSW			RO	
40143	142	PF POWER FACTOR MSW	L3	Phase power factor measurement "+" sign = User "-" sign = Generator	RO	FLOAT32
40144	143	PF POWER FACTOR LSW			RO	
40145	144	F FREQUENCY [HZ] MSW	L1	Phase frequency measurement in [Hz]	RO	FLOAT32
40146	145	F FREQUENCY [HZ] LSW			RO	



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40147	146	F FREQUENCY [HZ] MSW	L2	Phase frequency measurement in [Hz]	RO	FLOAT32
40148	147	F FREQUENCY [HZ] LSW			RO	
40149	148	F FREQUENCY [HZ] MSW	L3	Phase frequency measurement in [Hz]	RO	FLOAT32
40150	149	F FREQUENCY [HZ] LSW			RO	
40151	150	PERIOD [s] MSW	L1	Phase period measurement in [s]	RO	FLOAT32
40152	151	PERIOD [s] LSW			RO	
40153	152	PERIOD [s] MSW	L2	Phase period measurement in [s]	RO	FLOAT32
40154	153	PERIOD [s] LSW			RO	
40155	154	PERIOD [s] MSW	L3	Phase period measurement in [s]	RO	FLOAT32
40156	155	PERIOD [s] LSW			RO	
40157	156	V-V PHASE [°] MSW	L1-L2	Measurement of the angle in [°] between Voltage and Voltage	RO	FLOAT32
40158	157	V-V PHASE [°] LSW			RO	
40159	158	V-V PHASE [°] MSW	L2-L3	Measurement of the angle in [°] between Voltage and Voltage	RO	FLOAT32
40160	159	V-V PHASE [°] LSW			RO	
40161	160	V-V PHASE [°] MSW	L3-L1	Measurement of the angle in [°] between Voltage and Voltage	RO	FLOAT32
40162	161	V-V PHASE [°] LSW			RO	
40163	162	VLN rms [V] MSW	L1-N	Phase-neutral star voltage measurement	RO	FLOAT32
40164	163	VLN rms [V] LSW			RO	
40165	164	VLN rms [V] MSW	L2-N	Phase-neutral star voltage measurement	RO	FLOAT32
40166	165	VLN rms [V] LSW			RO	
40167	166	VLN rms [V] MSW	L3-N	Phase-neutral star voltage measurement	RO	FLOAT32
40168	167	VLN rms [V] LSW			RO	
40169	168	P TOTAL [W] MSW	3PH	Total Active Power measurement in [W] "+" sign = Absorbed Active Power "-" sign = Generated Active Power	RO	FLOAT32
40170	169	P TOTAL [W] LSW			RO	
40171	170	Q TOTAL [VAR] MSW	3PH	Total Reactive Power measurement in [VAR]	RO	FLOAT32
40172	171	Q TOTAL [VAR] LSW			RO	
40173	172	S TOTAL [VA] MSW	3PH	Total Apparent Power measurement in [VA]	RO	FLOAT32
40174	173	S TOTAL [VA] LSW			RO	
40175	174	PF TOTAL MSW	3PH	Total power factor measurement "+" sign = User "-" sign = Generator	RO	FLOAT32
40176	175	PF TOTAL LSW			RO	
40177	176	THD V [%] MSW	L1	Measurement of the total voltage harmonic distortion in [%] in comparison with the fundamental	RO	FLOAT32
40178	177	THD V [%] LSW			RO	
40179	178	THD V [%] MSW	L2		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40180	179	THD V [%] LSW		Measurement of the total voltage harmonic distortion in [%] in comparison with the fundamental	RO	
40181	180	THD V [%] MSW	L3	Measurement of the total voltage harmonic distortion in [%] in comparison with the fundamental	RO	FLOAT32
40182	181	THD V [%] LSW			RO	
40183	182	THD I [%] MSW	L1	Measurement of the total current harmonic distortion in [%] in comparison with the fundamental	RO	FLOAT32
40184	183	THD I [%] LSW			RO	
40185	184	THD I [%] MSW	L2	Measurement of the total current harmonic distortion in [%] in comparison with the fundamental	RO	FLOAT32
40186	185	THD I [%] LSW			RO	
40187	186	THD I [%] MSW	L3	Measurement of the total current harmonic distortion in [%] in comparison with the fundamental	RO	FLOAT32
40188	187	THD I [%] LSW			RO	
40189	188	VRMS FUNDAMENTAL [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the fundamental alone [V]	RO	FLOAT32
40190	189	VRMS FUNDAMENTAL [V] LSW			RO	
40191	190	VRMS FUNDAMENTAL [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the fundamental alone [V]	RO	FLOAT32
40192	191	VRMS FUNDAMENTAL [V] LSW			RO	
40193	192	VRMS FUNDAMENTAL [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the fundamental alone [V]	RO	FLOAT32
40194	193	VRMS FUNDAMENTAL [V] LSW			RO	
40195	194	VRMS HARMONIC 2 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40196	195	VRMS HARMONIC 2 [V] LSW			RO	
40197	196	VRMS HARMONIC 2 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40198	197	VRMS HARMONIC 2 [V] LSW			RO	
40199	198	VRMS HARMONIC 2 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40200	199	VRMS HARMONIC 2 [V] LSW			RO	
40201	200	VRMS HARMONIC 3 [V] MSW	L1-N		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40202	201	VRMS HARMONIC 3 [V] LSW		Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	
40203	202	VRMS HARMONIC 3 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40204	203	VRMS HARMONIC 3 [V] LSW			RO	
40205	204	VRMS HARMONIC 3 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40206	205	VRMS HARMONIC 3 [V] LSW			RO	
40207	206	VRMS HARMONIC 4 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40208	207	VRMS HARMONIC 4 [V] LSW			RO	
40209	208	VRMS HARMONIC 4 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40210	209	VRMS HARMONIC 4 [V] LSW			RO	
40211	210	VRMS HARMONIC 4 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40212	211	VRMS HARMONIC 4 [V] LSW			RO	
40213	212	VRMS HARMONIC 5 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40214	213	VRMS HARMONIC 5 [V] LSW			RO	
40215	214	VRMS HARMONIC 5 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40216	215	VRMS HARMONIC 5 [V] LSW			RO	
40217	216	VRMS HARMONIC 5 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40218	217	VRMS HARMONIC 5 [V] LSW			RO	
40219	218	VRMS HARMONIC 6 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40220	219	VRMS HARMONIC 6 [V] LSW			RO	
40221	220	VRMS HARMONIC 6 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40222	221	VRMS HARMONIC 6 [V] LSW			RO	
40223	222	VRMS HARMONIC 6 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40224	223	VRMS HARMONIC 6 [V] LSW			RO	
40225	224	VRMS HARMONIC 7 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS	RO	FLOAT32
40226	225	VRMS HARMONIC 7 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic [V]		
<b>40227</b>	226	VRMS HARMONIC 7 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40228</b>	227	VRMS HARMONIC 7 [V] LSW			RO	
<b>40229</b>	228	VRMS HARMONIC 7 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40230</b>	229	VRMS HARMONIC 7 [V] LSW			RO	
<b>40231</b>	230	VRMS HARMONIC 8 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40232</b>	231	VRMS HARMONIC 8 [V] LSW			RO	
<b>40233</b>	232	VRMS HARMONIC 8 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40234</b>	233	VRMS HARMONIC 8 [V] LSW			RO	
<b>40235</b>	234	VRMS HARMONIC 8 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40236</b>	235	VRMS HARMONIC 8 [V] LSW			RO	
<b>40237</b>	236	VRMS HARMONIC 9 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40238</b>	237	VRMS HARMONIC 9 [V] LSW			RO	
<b>40239</b>	238	VRMS HARMONIC 9 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40240</b>	239	VRMS HARMONIC 9 [V] LSW			RO	
<b>40241</b>	240	VRMS HARMONIC 9 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40242</b>	241	VRMS HARMONIC 9 [V] LSW			RO	
<b>40243</b>	242	VRMS HARMONIC 10 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40244</b>	243	VRMS HARMONIC 10 [V] LSW			RO	
<b>40245</b>	244	VRMS HARMONIC 10 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40246</b>	245	VRMS HARMONIC 10 [V] LSW			RO	
<b>40247</b>	246	VRMS HARMONIC 10 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40248</b>	247	VRMS HARMONIC 10 [V] LSW			RO	
<b>40249</b>	248	VRMS HARMONIC 11 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40250</b>	249	VRMS HARMONIC 11 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40251	250	VRMS HARMONIC 11 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40252	251	VRMS HARMONIC 11 [V] LSW			RO	
40253	252	VRMS HARMONIC 11 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40254	253	VRMS HARMONIC 11 [V] LSW			RO	
40255	254	VRMS HARMONIC 12 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40256	255	VRMS HARMONIC 12 [V] LSW			RO	
40257	256	VRMS HARMONIC 12 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40258	257	VRMS HARMONIC 12 [V] LSW			RO	
40259	258	VRMS HARMONIC 12 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40260	259	VRMS HARMONIC 12 [V] LSW			RO	
40261	260	VRMS HARMONIC 13 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40262	261	VRMS HARMONIC 13 [V] LSW			RO	
40263	262	VRMS HARMONIC 13 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40264	263	VRMS HARMONIC 13 [V] LSW			RO	
40265	264	VRMS HARMONIC 13 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40266	265	VRMS HARMONIC 13 [V] LSW			RO	
40267	266	VRMS HARMONIC 14 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40268	267	VRMS HARMONIC 14 [V] LSW			RO	
40269	268	VRMS HARMONIC 14 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40270	269	VRMS HARMONIC 14 [V] LSW			RO	
40271	270	VRMS HARMONIC 14 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40272	271	VRMS HARMONIC 14 [V] LSW			RO	
40273	272	VRMS HARMONIC 15 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40274	273	VRMS HARMONIC 15 [V] LSW			RO	
40275	274	VRMS HARMONIC 15 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS	RO	FLOAT32
40276	275	VRMS HARMONIC 15 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic [V]		
<b>40277</b>	276	VRMS HARMONIC 15 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40278</b>	277	VRMS HARMONIC 15 [V] LSW			RO	
<b>40279</b>	278	VRMS HARMONIC 16 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40280</b>	279	VRMS HARMONIC 16 [V] LSW			RO	
<b>40281</b>	280	VRMS HARMONIC 16 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40282</b>	281	VRMS HARMONIC 16 [V] LSW			RO	
<b>40283</b>	282	VRMS HARMONIC 16 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40284</b>	283	VRMS HARMONIC 16 [V] LSW			RO	
<b>40285</b>	284	VRMS HARMONIC 17 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40286</b>	285	VRMS HARMONIC 17 [V] LSW			RO	
<b>40287</b>	286	VRMS HARMONIC 17 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40288</b>	287	VRMS HARMONIC 17 [V] LSW			RO	
<b>40289</b>	288	VRMS HARMONIC 17 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40290</b>	289	VRMS HARMONIC 17 [V] LSW			RO	
<b>40291</b>	290	VRMS HARMONIC 18 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40292</b>	291	VRMS HARMONIC 18 [V] LSW			RO	
<b>40293</b>	292	VRMS HARMONIC 18 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40294</b>	293	VRMS HARMONIC 18 [V] LSW			RO	
<b>40295</b>	294	VRMS HARMONIC 18 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40296</b>	295	VRMS HARMONIC 18 [V] LSW			RO	
<b>40297</b>	296	VRMS HARMONIC 19 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40298</b>	297	VRMS HARMONIC 19 [V] LSW			RO	
<b>40299</b>	298	VRMS HARMONIC 19 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40300</b>	299	VRMS HARMONIC 19 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40301	300	VRMS HARMONIC 19 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40302	301	VRMS HARMONIC 19 [V] LSW			RO	
40303	302	VRMS HARMONIC 20 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40304	303	VRMS HARMONIC 20 [V] LSW			RO	
40305	304	VRMS HARMONIC 20 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40306	305	VRMS HARMONIC 20 [V] LSW			RO	
40307	306	VRMS HARMONIC 20 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40308	307	VRMS HARMONIC 20 [V] LSW			RO	
40309	308	VRMS HARMONIC 21 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40310	309	VRMS HARMONIC 21 [V] LSW			RO	
40311	310	VRMS HARMONIC 21 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40312	311	VRMS HARMONIC 21 [V] LSW			RO	
40313	312	VRMS HARMONIC 21 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40314	313	VRMS HARMONIC 21 [V] LSW			RO	
40315	314	VRMS HARMONIC 22 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40316	315	VRMS HARMONIC 22 [V] LSW			RO	
40317	316	VRMS HARMONIC 22 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40318	317	VRMS HARMONIC 22 [V] LSW			RO	
40319	318	VRMS HARMONIC 22 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40320	319	VRMS HARMONIC 22 [V] LSW			RO	
40321	320	VRMS HARMONIC 23 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40322	321	VRMS HARMONIC 23 [V] LSW			RO	
40323	322	VRMS HARMONIC 23 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40324	323	VRMS HARMONIC 23 [V] LSW			RO	
40325	324	VRMS HARMONIC 23 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS	RO	FLOAT32
40326	325	VRMS HARMONIC 23 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic [V]		
<b>40327</b>	326	VRMS HARMONIC 24 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40328</b>	327	VRMS HARMONIC 24 [V] LSW			RO	
<b>40329</b>	328	VRMS HARMONIC 24 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40330</b>	329	VRMS HARMONIC 24 [V] LSW			RO	
<b>40331</b>	330	VRMS HARMONIC 24 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40332</b>	331	VRMS HARMONIC 24 [V] LSW			RO	
<b>40333</b>	332	VRMS HARMONIC 25 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40334</b>	333	VRMS HARMONIC 25 [V] LSW			RO	
<b>40335</b>	334	VRMS HARMONIC 25 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40336</b>	335	VRMS HARMONIC 25 [V] LSW			RO	
<b>40337</b>	336	VRMS HARMONIC 25 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40338</b>	337	VRMS HARMONIC 25 [V] LSW			RO	
<b>40339</b>	338	VRMS HARMONIC 26 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40340</b>	339	VRMS HARMONIC 26 [V] LSW			RO	
<b>40341</b>	340	VRMS HARMONIC 26 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40342</b>	341	VRMS HARMONIC 26 [V] LSW			RO	
<b>40343</b>	342	VRMS HARMONIC 26 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40344</b>	343	VRMS HARMONIC 26 [V] LSW			RO	
<b>40345</b>	344	VRMS HARMONIC 27 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40346</b>	345	VRMS HARMONIC 27 [V] LSW			RO	
<b>40347</b>	346	VRMS HARMONIC 27 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40348</b>	347	VRMS HARMONIC 27 [V] LSW			RO	
<b>40349</b>	348	VRMS HARMONIC 27 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40350</b>	349	VRMS HARMONIC 27 [V] LSW			RO	



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40351	350	VRMS HARMONIC 28 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40352	351	VRMS HARMONIC 28 [V] LSW			RO	
40353	352	VRMS HARMONIC 28 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40354	353	VRMS HARMONIC 28 [V] LSW			RO	
40355	354	VRMS HARMONIC 28 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40356	355	VRMS HARMONIC 28 [V] LSW			RO	
40357	356	VRMS HARMONIC 29 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40358	357	VRMS HARMONIC 29 [V] LSW			RO	
40359	358	VRMS HARMONIC 29 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40360	359	VRMS HARMONIC 29 [V] LSW			RO	
40361	360	VRMS HARMONIC 29 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40362	361	VRMS HARMONIC 29 [V] LSW			RO	
40363	362	VRMS HARMONIC 30 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40364	363	VRMS HARMONIC 30 [V] LSW			RO	
40365	364	VRMS HARMONIC 30 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40366	365	VRMS HARMONIC 30 [V] LSW			RO	
40367	366	VRMS HARMONIC 30 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40368	367	VRMS HARMONIC 30 [V] LSW			RO	
40369	368	VRMS HARMONIC 31 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40370	369	VRMS HARMONIC 31 [V] LSW			RO	
40371	370	VRMS HARMONIC 31 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40372	371	VRMS HARMONIC 31 [V] LSW			RO	
40373	372	VRMS HARMONIC 31 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40374	373	VRMS HARMONIC 31 [V] LSW			RO	
40375	374	VRMS HARMONIC 32 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS	RO	FLOAT32
40376	375	VRMS HARMONIC 32 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic [V]		
<b>40377</b>	376	VRMS HARMONIC 32 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40378</b>	377	VRMS HARMONIC 32 [V] LSW			RO	
<b>40379</b>	378	VRMS HARMONIC 32 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40380</b>	379	VRMS HARMONIC 32 [V] LSW			RO	
<b>40381</b>	380	VRMS HARMONIC 33 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40382</b>	381	VRMS HARMONIC 33 [V] LSW			RO	
<b>40383</b>	382	VRMS HARMONIC 33 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40384</b>	383	VRMS HARMONIC 33 [V] LSW			RO	
<b>40385</b>	384	VRMS HARMONIC 33 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40386</b>	385	VRMS HARMONIC 33 [V] LSW			RO	
<b>40387</b>	386	VRMS HARMONIC 34 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40388</b>	387	VRMS HARMONIC 34 [V] LSW			RO	
<b>40389</b>	388	VRMS HARMONIC 34 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40390</b>	389	VRMS HARMONIC 34 [V] LSW			RO	
<b>40391</b>	390	VRMS HARMONIC 34 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40392</b>	391	VRMS HARMONIC 34 [V] LSW			RO	
<b>40393</b>	392	VRMS HARMONIC 35 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40394</b>	393	VRMS HARMONIC 35 [V] LSW			RO	
<b>40395</b>	394	VRMS HARMONIC 35 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40396</b>	395	VRMS HARMONIC 35 [V] LSW			RO	
<b>40397</b>	396	VRMS HARMONIC 35 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40398</b>	397	VRMS HARMONIC 35 [V] LSW			RO	
<b>40399</b>	398	VRMS HARMONIC 36 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40400</b>	399	VRMS HARMONIC 36 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40401	400	VRMS HARMONIC 36 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40402	401	VRMS HARMONIC 36 [V] LSW			RO	
40403	402	VRMS HARMONIC 36 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40404	403	VRMS HARMONIC 36 [V] LSW			RO	
40405	404	VRMS HARMONIC 37 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40406	405	VRMS HARMONIC 37 [V] LSW			RO	
40407	406	VRMS HARMONIC 37 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40408	407	VRMS HARMONIC 37 [V] LSW			RO	
40409	408	VRMS HARMONIC 37 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40410	409	VRMS HARMONIC 37 [V] LSW			RO	
40411	410	VRMS HARMONIC 38 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40412	411	VRMS HARMONIC 38 [V] LSW			RO	
40413	412	VRMS HARMONIC 38 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40414	413	VRMS HARMONIC 38 [V] LSW			RO	
40415	414	VRMS HARMONIC 38 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40416	415	VRMS HARMONIC 38 [V] LSW			RO	
40417	416	VRMS HARMONIC 39 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40418	417	VRMS HARMONIC 39 [V] LSW			RO	
40419	418	VRMS HARMONIC 39 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40420	419	VRMS HARMONIC 39 [V] LSW			RO	
40421	420	VRMS HARMONIC 39 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40422	421	VRMS HARMONIC 39 [V] LSW			RO	
40423	422	VRMS HARMONIC 40 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40424	423	VRMS HARMONIC 40 [V] LSW			RO	
40425	424	VRMS HARMONIC 40 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS	RO	FLOAT32
40426	425	VRMS HARMONIC 40 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic [V]		
<b>40427</b>	426	VRMS HARMONIC 40 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40428</b>	427	VRMS HARMONIC 40 [V] LSW			RO	
<b>40429</b>	428	VRMS HARMONIC 41 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40430</b>	429	VRMS HARMONIC 41 [V] LSW			RO	
<b>40431</b>	430	VRMS HARMONIC 41 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40432</b>	431	VRMS HARMONIC 41 [V] LSW			RO	
<b>40433</b>	432	VRMS HARMONIC 41 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40434</b>	433	VRMS HARMONIC 41 [V] LSW			RO	
<b>40435</b>	434	VRMS HARMONIC 42 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40436</b>	435	VRMS HARMONIC 42 [V] LSW			RO	
<b>40437</b>	436	VRMS HARMONIC 42 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40438</b>	437	VRMS HARMONIC 42 [V] LSW			RO	
<b>40439</b>	438	VRMS HARMONIC 42 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40440</b>	439	VRMS HARMONIC 42 [V] LSW			RO	
<b>40441</b>	440	VRMS HARMONIC 43 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40442</b>	441	VRMS HARMONIC 43 [V] LSW			RO	
<b>40443</b>	442	VRMS HARMONIC 43 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40444</b>	443	VRMS HARMONIC 43 [V] LSW			RO	
<b>40445</b>	444	VRMS HARMONIC 43 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40446</b>	445	VRMS HARMONIC 43 [V] LSW			RO	
<b>40447</b>	446	VRMS HARMONIC 44 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40448</b>	447	VRMS HARMONIC 44 [V] LSW			RO	
<b>40449</b>	448	VRMS HARMONIC 44 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40450</b>	449	VRMS HARMONIC 44 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40451	450	VRMS HARMONIC 44 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40452	451	VRMS HARMONIC 44 [V] LSW			RO	
40453	452	VRMS HARMONIC 45 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40454	453	VRMS HARMONIC 45 [V] LSW			RO	
40455	454	VRMS HARMONIC 45 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40456	455	VRMS HARMONIC 45 [V] LSW			RO	
40457	456	VRMS HARMONIC 45 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40458	457	VRMS HARMONIC 45 [V] LSW			RO	
40459	458	VRMS HARMONIC 46 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40460	459	VRMS HARMONIC 46 [V] LSW			RO	
40461	460	VRMS HARMONIC 46 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40462	461	VRMS HARMONIC 46 [V] LSW			RO	
40463	462	VRMS HARMONIC 46 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40464	463	VRMS HARMONIC 46 [V] LSW			RO	
40465	464	VRMS HARMONIC 47 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40466	465	VRMS HARMONIC 47 [V] LSW			RO	
40467	466	VRMS HARMONIC 47 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40468	467	VRMS HARMONIC 47 [V] LSW			RO	
40469	468	VRMS HARMONIC 47 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40470	469	VRMS HARMONIC 47 [V] LSW			RO	
40471	470	VRMS HARMONIC 48 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40472	471	VRMS HARMONIC 48 [V] LSW			RO	
40473	472	VRMS HARMONIC 48 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40474	473	VRMS HARMONIC 48 [V] LSW			RO	
40475	474	VRMS HARMONIC 48 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS	RO	FLOAT32
40476	475	VRMS HARMONIC 48 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic [V]		
<b>40477</b>	476	VRMS HARMONIC 49 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40478</b>	477	VRMS HARMONIC 49 [V] LSW			RO	
<b>40479</b>	478	VRMS HARMONIC 49 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40480</b>	479	VRMS HARMONIC 49 [V] LSW			RO	
<b>40481</b>	480	VRMS HARMONIC 49 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40482</b>	481	VRMS HARMONIC 49 [V] LSW			RO	
<b>40483</b>	482	VRMS HARMONIC 50 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40484</b>	483	VRMS HARMONIC 50 [V] LSW			RO	
<b>40485</b>	484	VRMS HARMONIC 50 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40486</b>	485	VRMS HARMONIC 50 [V] LSW			RO	
<b>40487</b>	486	VRMS HARMONIC 50 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40488</b>	487	VRMS HARMONIC 50 [V] LSW			RO	
<b>40489</b>	488	VRMS HARMONIC 51 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40490</b>	489	VRMS HARMONIC 51 [V] LSW			RO	
<b>40491</b>	490	VRMS HARMONIC 51 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40492</b>	491	VRMS HARMONIC 51 [V] LSW			RO	
<b>40493</b>	492	VRMS HARMONIC 51 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40494</b>	493	VRMS HARMONIC 51 [V] LSW			RO	
<b>40495</b>	494	VRMS HARMONIC 52 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40496</b>	495	VRMS HARMONIC 52 [V] LSW			RO	
<b>40497</b>	496	VRMS HARMONIC 52 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40498</b>	497	VRMS HARMONIC 52 [V] LSW			RO	
<b>40499</b>	498	VRMS HARMONIC 52 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
<b>40500</b>	499	VRMS HARMONIC 52 [V] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40501	500	VRMS HARMONIC 53 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40502	501	VRMS HARMONIC 53 [V] LSW			RO	
40503	502	VRMS HARMONIC 53 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40504	503	VRMS HARMONIC 53 [V] LSW			RO	
40505	504	VRMS HARMONIC 53 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40506	505	VRMS HARMONIC 53 [V] LSW			RO	
40507	506	VRMS HARMONIC 54 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40508	507	VRMS HARMONIC 54 [V] LSW			RO	
40509	508	VRMS HARMONIC 54 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40510	509	VRMS HARMONIC 54 [V] LSW			RO	
40511	510	VRMS HARMONIC 54 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40512	511	VRMS HARMONIC 54 [V] LSW			RO	
40513	512	VRMS HARMONIC 55 [V] MSW	L1-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40514	513	VRMS HARMONIC 55 [V] LSW			RO	
40515	514	VRMS HARMONIC 55 [V] MSW	L2-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40516	515	VRMS HARMONIC 55 [V] LSW			RO	
40517	516	VRMS HARMONIC 55 [V] MSW	L3-N	Measurement of the Phase - Neutral VRMS of the i-th harmonic [V]	RO	FLOAT32
40518	517	VRMS HARMONIC 55 [V] LSW			RO	
40519	518	IRMS FUNDAMENTAL [A] MSW	L1	Measurement of the phase IRMS fundamental alone [A]	RO	FLOAT32
40520	519	IRMS FUNDAMENTAL [A] LSW			RO	
40521	520	IRMS FUNDAMENTAL [A] MSW	L2	Measurement of the phase IRMS fundamental alone [A]	RO	FLOAT32
40522	521	IRMS FUNDAMENTAL [A] LSW			RO	
40523	522	IRMS FUNDAMENTAL [A] MSW	L3	Measurement of the phase IRMS fundamental alone [A]	RO	FLOAT32
40524	523	IRMS FUNDAMENTAL [A] LSW			RO	
40525	524	IRMS HARMONIC 2 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic [A]	RO	FLOAT32
40526	525	IRMS HARMONIC 2 [A] LSW			RO	
40527	526	IRMS HARMONIC 2 [A] MSW	L2		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40528	527	IRMS HARMONIC 2 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40529	528	IRMS HARMONIC 2 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40530	529	IRMS HARMONIC 2 [A] LSW			RO	
40531	530	IRMS HARMONIC 3 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40532	531	IRMS HARMONIC 3 [A] LSW			RO	
40533	532	IRMS HARMONIC 3 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40534	533	IRMS HARMONIC 3 [A] LSW			RO	
40535	534	IRMS HARMONIC 3 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40536	535	IRMS HARMONIC 3 [A] LSW			RO	
40537	536	IRMS HARMONIC 4 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40538	537	IRMS HARMONIC 4 [A] LSW			RO	
40539	538	IRMS HARMONIC 4 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40540	539	IRMS HARMONIC 4 [A] LSW			RO	
40541	540	IRMS HARMONIC 4 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40542	541	IRMS HARMONIC 4 [A] LSW			RO	
40543	542	IRMS HARMONIC 5 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40544	543	IRMS HARMONIC 5 [A] LSW			RO	
40545	544	IRMS HARMONIC 5 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40546	545	IRMS HARMONIC 5 [A] LSW			RO	
40547	546	IRMS HARMONIC 5 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40548	547	IRMS HARMONIC 5 [A] LSW			RO	
40549	548	IRMS HARMONIC 6 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40550	549	IRMS HARMONIC 6 [A] LSW			RO	
40551	550	IRMS HARMONIC 6 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40552	551	IRMS HARMONIC 6 [A] LSW			RO	
40553	552	IRMS HARMONIC 6 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40554	553	IRMS HARMONIC 6 [A] LSW			RO	
40555	554	IRMS HARMONIC 7 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40556	555	IRMS HARMONIC 7 [A] LSW			RO	
40557	556	IRMS HARMONIC 7 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40558	557	IRMS HARMONIC 7 [A] LSW			RO	
40559	558	IRMS HARMONIC 7 [A] MSW	L3		RO	FLOAT32



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40560	559	IRMS HARMONIC 7 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40561	560	IRMS HARMONIC 8 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40562	561	IRMS HARMONIC 8 [A] LSW			RO	
40563	562	IRMS HARMONIC 8 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40564	563	IRMS HARMONIC 8 [A] LSW			RO	
40565	564	IRMS HARMONIC 8 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40566	565	IRMS HARMONIC 8 [A] LSW			RO	
40567	566	IRMS HARMONIC 9 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40568	567	IRMS HARMONIC 9 [A] LSW			RO	
40569	568	IRMS HARMONIC 9 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40570	569	IRMS HARMONIC 9 [A] LSW			RO	
40571	570	IRMS HARMONIC 9 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40572	571	IRMS HARMONIC 9 [A] LSW			RO	
40573	572	IRMS HARMONIC 10 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40574	573	IRMS HARMONIC 10 [A] LSW			RO	
40575	574	IRMS HARMONIC 10 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40576	575	IRMS HARMONIC 10 [A] LSW			RO	
40577	576	IRMS HARMONIC 10 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40578	577	IRMS HARMONIC 10 [A] LSW			RO	
40579	578	IRMS HARMONIC 11 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40580	579	IRMS HARMONIC 11 [A] LSW			RO	
40581	580	IRMS HARMONIC 11 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40582	581	IRMS HARMONIC 11 [A] LSW			RO	
40583	582	IRMS HARMONIC 11 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40584	583	IRMS HARMONIC 11 [A] LSW			RO	
40585	584	IRMS HARMONIC 12 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40586	585	IRMS HARMONIC 12 [A] LSW			RO	
40587	586	IRMS HARMONIC 12 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40588	587	IRMS HARMONIC 12 [A] LSW			RO	
40589	588	IRMS HARMONIC 12 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40590	589	IRMS HARMONIC 12 [A] LSW			RO	
40591	590	IRMS HARMONIC 13 [A] MSW	L1		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40592	591	IRMS HARMONIC 13 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40593	592	IRMS HARMONIC 13 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40594	593	IRMS HARMONIC 13 [A] LSW			RO	
40595	594	IRMS HARMONIC 13 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40596	595	IRMS HARMONIC 13 [A] LSW			RO	
40597	596	IRMS HARMONIC 14 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40598	597	IRMS HARMONIC 14 [A] LSW			RO	
40599	598	IRMS HARMONIC 14 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40600	599	IRMS HARMONIC 14 [A] LSW			RO	
40601	600	IRMS HARMONIC 14 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40602	601	IRMS HARMONIC 14 [A] LSW			RO	
40603	602	IRMS HARMONIC 15 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40604	603	IRMS HARMONIC 15 [A] LSW			RO	
40605	604	IRMS HARMONIC 15 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40606	605	IRMS HARMONIC 15 [A] LSW			RO	
40607	606	IRMS HARMONIC 15 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40608	607	IRMS HARMONIC 15 [A] LSW			RO	
40609	608	IRMS HARMONIC 16 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40610	609	IRMS HARMONIC 16 [A] LSW			RO	
40611	610	IRMS HARMONIC 16 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40612	611	IRMS HARMONIC 16 [A] LSW			RO	
40613	612	IRMS HARMONIC 16 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40614	613	IRMS HARMONIC 16 [A] LSW			RO	
40615	614	IRMS HARMONIC 17 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40616	615	IRMS HARMONIC 17 [A] LSW			RO	
40617	616	IRMS HARMONIC 17 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40618	617	IRMS HARMONIC 17 [A] LSW			RO	
40619	618	IRMS HARMONIC 17 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40620	619	IRMS HARMONIC 17 [A] LSW			RO	
40621	620	IRMS HARMONIC 18 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40622	621	IRMS HARMONIC 18 [A] LSW			RO	
40623	622	IRMS HARMONIC 18 [A] MSW	L2		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40624	623	IRMS HARMONIC 18 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40625	624	IRMS HARMONIC 18 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40626	625	IRMS HARMONIC 18 [A] LSW			RO	
40627	626	IRMS HARMONIC 19 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40628	627	IRMS HARMONIC 19 [A] LSW			RO	
40629	628	IRMS HARMONIC 19 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40630	629	IRMS HARMONIC 19 [A] LSW			RO	
40631	630	IRMS HARMONIC 19 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40632	631	IRMS HARMONIC 19 [A] LSW			RO	
40633	632	IRMS HARMONIC 20 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40634	633	IRMS HARMONIC 20 [A] LSW			RO	
40635	634	IRMS HARMONIC 20 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40636	635	IRMS HARMONIC 20 [A] LSW			RO	
40637	636	IRMS HARMONIC 20 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40638	637	IRMS HARMONIC 20 [A] LSW			RO	
40639	638	IRMS HARMONIC 21 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40640	639	IRMS HARMONIC 21 [A] LSW			RO	
40641	640	IRMS HARMONIC 21 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40642	641	IRMS HARMONIC 21 [A] LSW			RO	
40643	642	IRMS HARMONIC 21 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40644	643	IRMS HARMONIC 21 [A] LSW			RO	
40645	644	IRMS HARMONIC 22 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40646	645	IRMS HARMONIC 22 [A] LSW			RO	
40647	646	IRMS HARMONIC 22 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40648	647	IRMS HARMONIC 22 [A] LSW			RO	
40649	648	IRMS HARMONIC 22 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40650	649	IRMS HARMONIC 22 [A] LSW			RO	
40651	650	IRMS HARMONIC 23 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40652	651	IRMS HARMONIC 23 [A] LSW			RO	
40653	652	IRMS HARMONIC 23 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40654	653	IRMS HARMONIC 23 [A] LSW			RO	
40655	654	IRMS HARMONIC 23 [A] MSW	L3		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40656	655	IRMS HARMONIC 23 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40657	656	IRMS HARMONIC 24 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40658	657	IRMS HARMONIC 24 [A] LSW			RO	
40659	658	IRMS HARMONIC 24 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40660	659	IRMS HARMONIC 24 [A] LSW			RO	
40661	660	IRMS HARMONIC 24 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40662	661	IRMS HARMONIC 24 [A] LSW			RO	
40663	662	IRMS HARMONIC 25 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40664	663	IRMS HARMONIC 25 [A] LSW			RO	
40665	664	IRMS HARMONIC 25 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40666	665	IRMS HARMONIC 25 [A] LSW			RO	
40667	666	IRMS HARMONIC 25 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40668	667	IRMS HARMONIC 25 [A] LSW			RO	
40669	668	IRMS HARMONIC 26 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40670	669	IRMS HARMONIC 26 [A] LSW			RO	
40671	670	IRMS HARMONIC 26 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40672	671	IRMS HARMONIC 26 [A] LSW			RO	
40673	672	IRMS HARMONIC 26 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40674	673	IRMS HARMONIC 26 [A] LSW			RO	
40675	674	IRMS HARMONIC 27 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40676	675	IRMS HARMONIC 27 [A] LSW			RO	
40677	676	IRMS HARMONIC 27 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40678	677	IRMS HARMONIC 27 [A] LSW			RO	
40679	678	IRMS HARMONIC 27 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40680	679	IRMS HARMONIC 27 [A] LSW			RO	
40681	680	IRMS HARMONIC 28 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40682	681	IRMS HARMONIC 28 [A] LSW			RO	
40683	682	IRMS HARMONIC 28 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40684	683	IRMS HARMONIC 28 [A] LSW			RO	
40685	684	IRMS HARMONIC 28 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40686	685	IRMS HARMONIC 28 [A] LSW			RO	
40687	686	IRMS HARMONIC 29 [A] MSW	L1		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40688	687	IRMS HARMONIC 29 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40689	688	IRMS HARMONIC 29 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40690	689	IRMS HARMONIC 29 [A] LSW			RO	
40691	690	IRMS HARMONIC 29 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40692	691	IRMS HARMONIC 29 [A] LSW			RO	
40693	692	IRMS HARMONIC 30 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40694	693	IRMS HARMONIC 30 [A] LSW			RO	
40695	694	IRMS HARMONIC 30 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40696	695	IRMS HARMONIC 30 [A] LSW			RO	
40697	696	IRMS HARMONIC 30 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40698	697	IRMS HARMONIC 30 [A] LSW			RO	
40699	698	IRMS HARMONIC 31 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40700	699	IRMS HARMONIC 31 [A] LSW			RO	
40701	700	IRMS HARMONIC 31 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40702	701	IRMS HARMONIC 31 [A] LSW			RO	
40703	702	IRMS HARMONIC 31 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40704	703	IRMS HARMONIC 31 [A] LSW			RO	
40705	704	IRMS HARMONIC 32 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40706	705	IRMS HARMONIC 32 [A] LSW			RO	
40707	706	IRMS HARMONIC 32 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40708	707	IRMS HARMONIC 32 [A] LSW			RO	
40709	708	IRMS HARMONIC 32 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40710	709	IRMS HARMONIC 32 [A] LSW			RO	
40711	710	IRMS HARMONIC 33 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40712	711	IRMS HARMONIC 33 [A] LSW			RO	
40713	712	IRMS HARMONIC 33 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40714	713	IRMS HARMONIC 33 [A] LSW			RO	
40715	714	IRMS HARMONIC 33 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40716	715	IRMS HARMONIC 33 [A] LSW			RO	
40717	716	IRMS HARMONIC 34 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40718	717	IRMS HARMONIC 34 [A] LSW			RO	
40719	718	IRMS HARMONIC 34 [A] MSW	L2		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40720	719	IRMS HARMONIC 34 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40721	720	IRMS HARMONIC 34 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40722	721	IRMS HARMONIC 34 [A] LSW			RO	
40723	722	IRMS HARMONIC 35 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40724	723	IRMS HARMONIC 35 [A] LSW			RO	
40725	724	IRMS HARMONIC 35 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40726	725	IRMS HARMONIC 35 [A] LSW			RO	
40727	726	IRMS HARMONIC 35 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40728	727	IRMS HARMONIC 35 [A] LSW			RO	
40729	728	IRMS HARMONIC 36 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40730	729	IRMS HARMONIC 36 [A] LSW			RO	
40731	730	IRMS HARMONIC 36 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40732	731	IRMS HARMONIC 36 [A] LSW			RO	
40733	732	IRMS HARMONIC 36 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40734	733	IRMS HARMONIC 36 [A] LSW			RO	
40735	734	IRMS HARMONIC 37 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40736	735	IRMS HARMONIC 37 [A] LSW			RO	
40737	736	IRMS HARMONIC 37 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40738	737	IRMS HARMONIC 37 [A] LSW			RO	
40739	738	IRMS HARMONIC 37 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40740	739	IRMS HARMONIC 37 [A] LSW			RO	
40741	740	IRMS HARMONIC 38 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40742	741	IRMS HARMONIC 38 [A] LSW			RO	
40743	742	IRMS HARMONIC 38 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40744	743	IRMS HARMONIC 38 [A] LSW			RO	
40745	744	IRMS HARMONIC 38 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40746	745	IRMS HARMONIC 38 [A] LSW			RO	
40747	746	IRMS HARMONIC 39 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40748	747	IRMS HARMONIC 39 [A] LSW			RO	
40749	748	IRMS HARMONIC 39 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40750	749	IRMS HARMONIC 39 [A] LSW			RO	
40751	750	IRMS HARMONIC 39 [A] MSW	L3		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40752	751	IRMS HARMONIC 39 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40753	752	IRMS HARMONIC 40 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40754	753	IRMS HARMONIC 40 [A] LSW			RO	
40755	754	IRMS HARMONIC 40 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40756	755	IRMS HARMONIC 40 [A] LSW			RO	
40757	756	IRMS HARMONIC 40 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40758	757	IRMS HARMONIC 40 [A] LSW			RO	
40759	758	IRMS HARMONIC 41 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40760	759	IRMS HARMONIC 41 [A] LSW			RO	
40761	760	IRMS HARMONIC 41 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40762	761	IRMS HARMONIC 41 [A] LSW			RO	
40763	762	IRMS HARMONIC 41 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40764	763	IRMS HARMONIC 41 [A] LSW			RO	
40765	764	IRMS HARMONIC 42 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40766	765	IRMS HARMONIC 42 [A] LSW			RO	
40767	766	IRMS HARMONIC 42 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40768	767	IRMS HARMONIC 42 [A] LSW			RO	
40769	768	IRMS HARMONIC 42 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40770	769	IRMS HARMONIC 42 [A] LSW			RO	
40771	770	IRMS HARMONIC 43 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40772	771	IRMS HARMONIC 43 [A] LSW			RO	
40773	772	IRMS HARMONIC 43 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40774	773	IRMS HARMONIC 43 [A] LSW			RO	
40775	774	IRMS HARMONIC 43 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40776	775	IRMS HARMONIC 43 [A] LSW			RO	
40777	776	IRMS HARMONIC 44 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40778	777	IRMS HARMONIC 44 [A] LSW			RO	
40779	778	IRMS HARMONIC 44 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40780	779	IRMS HARMONIC 44 [A] LSW			RO	
40781	780	IRMS HARMONIC 44 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40782	781	IRMS HARMONIC 44 [A] LSW			RO	
40783	782	IRMS HARMONIC 45 [A] MSW	L1		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40784	783	IRMS HARMONIC 45 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40785	784	IRMS HARMONIC 45 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40786	785	IRMS HARMONIC 45 [A] LSW			RO	
40787	786	IRMS HARMONIC 45 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40788	787	IRMS HARMONIC 45 [A] LSW			RO	
40789	788	IRMS HARMONIC 46 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40790	789	IRMS HARMONIC 46 [A] LSW			RO	
40791	790	IRMS HARMONIC 46 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40792	791	IRMS HARMONIC 46 [A] LSW			RO	
40793	792	IRMS HARMONIC 46 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40794	793	IRMS HARMONIC 46 [A] LSW			RO	
40795	794	IRMS HARMONIC 47 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40796	795	IRMS HARMONIC 47 [A] LSW			RO	
40797	796	IRMS HARMONIC 47 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40798	797	IRMS HARMONIC 47 [A] LSW			RO	
40799	798	IRMS HARMONIC 47 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40800	799	IRMS HARMONIC 47 [A] LSW			RO	
40801	800	IRMS HARMONIC 48 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40802	801	IRMS HARMONIC 48 [A] LSW			RO	
40803	802	IRMS HARMONIC 48 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40804	803	IRMS HARMONIC 48 [A] LSW			RO	
40805	804	IRMS HARMONIC 48 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40806	805	IRMS HARMONIC 48 [A] LSW			RO	
40807	806	IRMS HARMONIC 49 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40808	807	IRMS HARMONIC 49 [A] LSW			RO	
40809	808	IRMS HARMONIC 49 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40810	809	IRMS HARMONIC 49 [A] LSW			RO	
40811	810	IRMS HARMONIC 49 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40812	811	IRMS HARMONIC 49 [A] LSW			RO	
40813	812	IRMS HARMONIC 50 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40814	813	IRMS HARMONIC 50 [A] LSW			RO	
40815	814	IRMS HARMONIC 50 [A] MSW	L2		RO	FLOAT32



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40816	815	IRMS HARMONIC 50 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40817	816	IRMS HARMONIC 50 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40818	817	IRMS HARMONIC 50 [A] LSW			RO	
40819	818	IRMS HARMONIC 51 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40820	819	IRMS HARMONIC 51 [A] LSW			RO	
40821	820	IRMS HARMONIC 51 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40822	821	IRMS HARMONIC 51 [A] LSW			RO	
40823	822	IRMS HARMONIC 51 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40824	823	IRMS HARMONIC 51 [A] LSW			RO	
40825	824	IRMS HARMONIC 52 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40826	825	IRMS HARMONIC 52 [A] LSW			RO	
40827	826	IRMS HARMONIC 52 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40828	827	IRMS HARMONIC 52 [A] LSW			RO	
40829	828	IRMS HARMONIC 52 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40830	829	IRMS HARMONIC 52 [A] LSW			RO	
40831	830	IRMS HARMONIC 53 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40832	831	IRMS HARMONIC 53 [A] LSW			RO	
40833	832	IRMS HARMONIC 53 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40834	833	IRMS HARMONIC 53 [A] LSW			RO	
40835	834	IRMS HARMONIC 53 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40836	835	IRMS HARMONIC 53 [A] LSW			RO	
40837	836	IRMS HARMONIC 54 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40838	837	IRMS HARMONIC 54 [A] LSW			RO	
40839	838	IRMS HARMONIC 54 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40840	839	IRMS HARMONIC 54 [A] LSW			RO	
40841	840	IRMS HARMONIC 54 [A] MSW	L3	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40842	841	IRMS HARMONIC 54 [A] LSW			RO	
40843	842	IRMS HARMONIC 55 [A] MSW	L1	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40844	843	IRMS HARMONIC 55 [A] LSW			RO	
40845	844	IRMS HARMONIC 55 [A] MSW	L2	Measurement of the phase IRMS of the i-th harmonic[A]	RO	FLOAT32
40846	845	IRMS HARMONIC 55 [A] LSW			RO	
40847	846	IRMS HARMONIC 55 [A] MSW	L3		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40848	847	IRMS HARMONIC 55 [A] LSW		Measurement of the phase IRMS of the i-th harmonic[A]	RO	
40849	848	VRMS HARMONIC 2 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40850	849	VRMS HARMONIC 2 [%] LSW			RO	
40851	850	VRMS HARMONIC 2 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40852	851	VRMS HARMONIC 2 [%] LSW			RO	
40853	852	VRMS HARMONIC 2 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40854	853	VRMS HARMONIC 2 [%] LSW			RO	
40855	854	VRMS HARMONIC 3 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40856	855	VRMS HARMONIC 3 [%] LSW			RO	
40857	856	VRMS HARMONIC 3 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40858	857	VRMS HARMONIC 3 [%] LSW			RO	
40859	858	VRMS HARMONIC 3 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40860	859	VRMS HARMONIC 3 [%] LSW			RO	
40861	860	VRMS HARMONIC 4 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40862	861	VRMS HARMONIC 4 [%] LSW			RO	
40863	862	VRMS HARMONIC 4 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40864	863	VRMS HARMONIC 4 [%] LSW			RO	
40865	864	VRMS HARMONIC 4 [%] MSW	L3-N		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40866	865	VRMS HARMONIC 4 [%] LSW		Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	
40867	866	VRMS HARMONIC 5 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40868	867	VRMS HARMONIC 5 [%] LSW			RO	
40869	868	VRMS HARMONIC 5 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40870	869	VRMS HARMONIC 5 [%] LSW			RO	
40871	870	VRMS HARMONIC 5 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40872	871	VRMS HARMONIC 5 [%] LSW			RO	
40873	872	VRMS HARMONIC 6 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40874	873	VRMS HARMONIC 6 [%] LSW			RO	
40875	874	VRMS HARMONIC 6 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40876	875	VRMS HARMONIC 6 [%] LSW			RO	
40877	876	VRMS HARMONIC 6 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40878	877	VRMS HARMONIC 6 [%] LSW			RO	
40879	878	VRMS HARMONIC 7 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40880	879	VRMS HARMONIC 7 [%] LSW			RO	
40881	880	VRMS HARMONIC 7 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in	RO	FLOAT32
40882	881	VRMS HARMONIC 7 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>40883</b>	882	VRMS HARMONIC 7 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40884</b>	883	VRMS HARMONIC 7 [%] LSW			RO	
<b>40885</b>	884	VRMS HARMONIC 8 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40886</b>	885	VRMS HARMONIC 8 [%] LSW			RO	
<b>40887</b>	886	VRMS HARMONIC 8 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40888</b>	887	VRMS HARMONIC 8 [%] LSW			RO	
<b>40889</b>	888	VRMS HARMONIC 8 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40890</b>	889	VRMS HARMONIC 8 [%] LSW			RO	
<b>40891</b>	890	VRMS HARMONIC 9 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40892</b>	891	VRMS HARMONIC 9 [%] LSW			RO	
<b>40893</b>	892	VRMS HARMONIC 9 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40894</b>	893	VRMS HARMONIC 9 [%] LSW			RO	
<b>40895</b>	894	VRMS HARMONIC 9 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40896</b>	895	VRMS HARMONIC 9 [%] LSW			RO	
<b>40897</b>	896	VRMS HARMONIC 10 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40898</b>	897	VRMS HARMONIC 10 [%] LSW			RO	
<b>40899</b>	898	VRMS HARMONIC 10 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage	RO	FLOAT32
<b>40900</b>	899	VRMS HARMONIC 10 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>40901</b>	900	VRMS HARMONIC 10 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40902</b>	901	VRMS HARMONIC 10 [%] LSW			RO	
<b>40903</b>	902	VRMS HARMONIC 11 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40904</b>	903	VRMS HARMONIC 11 [%] LSW			RO	
<b>40905</b>	904	VRMS HARMONIC 11 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40906</b>	905	VRMS HARMONIC 11 [%] LSW			RO	
<b>40907</b>	906	VRMS HARMONIC 11 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40908</b>	907	VRMS HARMONIC 11 [%] LSW			RO	
<b>40909</b>	908	VRMS HARMONIC 12 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40910</b>	909	VRMS HARMONIC 12 [%] LSW			RO	
<b>40911</b>	910	VRMS HARMONIC 12 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40912</b>	911	VRMS HARMONIC 12 [%] LSW			RO	
<b>40913</b>	912	VRMS HARMONIC 12 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40914</b>	913	VRMS HARMONIC 12 [%] LSW			RO	
<b>40915</b>	914	VRMS HARMONIC 13 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40916</b>	915	VRMS HARMONIC 13 [%] LSW			RO	
<b>40917</b>	916	VRMS HARMONIC 13 [%] MSW	L2-N		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40918	917	VRMS HARMONIC 13 [%] LSW		Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	
40919	918	VRMS HARMONIC 13 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40920	919	VRMS HARMONIC 13 [%] LSW			RO	
40921	920	VRMS HARMONIC 14 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40922	921	VRMS HARMONIC 14 [%] LSW			RO	
40923	922	VRMS HARMONIC 14 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40924	923	VRMS HARMONIC 14 [%] LSW			RO	
40925	924	VRMS HARMONIC 14 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40926	925	VRMS HARMONIC 14 [%] LSW			RO	
40927	926	VRMS HARMONIC 15 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40928	927	VRMS HARMONIC 15 [%] LSW			RO	
40929	928	VRMS HARMONIC 15 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40930	929	VRMS HARMONIC 15 [%] LSW			RO	
40931	930	VRMS HARMONIC 15 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40932	931	VRMS HARMONIC 15 [%] LSW			RO	
40933	932	VRMS HARMONIC 16 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in	RO	FLOAT32
40934	933	VRMS HARMONIC 16 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>40935</b>	934	VRMS HARMONIC 16 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40936</b>	935	VRMS HARMONIC 16 [%] LSW			RO	
<b>40937</b>	936	VRMS HARMONIC 16 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40938</b>	937	VRMS HARMONIC 16 [%] LSW			RO	
<b>40939</b>	938	VRMS HARMONIC 17 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40940</b>	939	VRMS HARMONIC 17 [%] LSW			RO	
<b>40941</b>	940	VRMS HARMONIC 17 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40942</b>	941	VRMS HARMONIC 17 [%] LSW			RO	
<b>40943</b>	942	VRMS HARMONIC 17 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40944</b>	943	VRMS HARMONIC 17 [%] LSW			RO	
<b>40945</b>	944	VRMS HARMONIC 18 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40946</b>	945	VRMS HARMONIC 18 [%] LSW			RO	
<b>40947</b>	946	VRMS HARMONIC 18 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40948</b>	947	VRMS HARMONIC 18 [%] LSW			RO	
<b>40949</b>	948	VRMS HARMONIC 18 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40950</b>	949	VRMS HARMONIC 18 [%] LSW			RO	
<b>40951</b>	950	VRMS HARMONIC 19 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage	RO	FLOAT32
<b>40952</b>	951	VRMS HARMONIC 19 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>40953</b>	952	VRMS HARMONIC 19 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40954</b>	953	VRMS HARMONIC 19 [%] LSW			RO	
<b>40955</b>	954	VRMS HARMONIC 19 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40956</b>	955	VRMS HARMONIC 19 [%] LSW			RO	
<b>40957</b>	956	VRMS HARMONIC 20 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40958</b>	957	VRMS HARMONIC 20 [%] LSW			RO	
<b>40959</b>	958	VRMS HARMONIC 20 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40960</b>	959	VRMS HARMONIC 20 [%] LSW			RO	
<b>40961</b>	960	VRMS HARMONIC 20 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40962</b>	961	VRMS HARMONIC 20 [%] LSW			RO	
<b>40963</b>	962	VRMS HARMONIC 21 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40964</b>	963	VRMS HARMONIC 21 [%] LSW			RO	
<b>40965</b>	964	VRMS HARMONIC 21 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40966</b>	965	VRMS HARMONIC 21 [%] LSW			RO	
<b>40967</b>	966	VRMS HARMONIC 21 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40968</b>	967	VRMS HARMONIC 21 [%] LSW			RO	
<b>40969</b>	968	VRMS HARMONIC 22 [%] MSW	L1-N		RO	FLOAT32



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
40970	969	VRMS HARMONIC 22 [%] LSW		Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	
40971	970	VRMS HARMONIC 22 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40972	971	VRMS HARMONIC 22 [%] LSW			RO	
40973	972	VRMS HARMONIC 22 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40974	973	VRMS HARMONIC 22 [%] LSW			RO	
40975	974	VRMS HARMONIC 23 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40976	975	VRMS HARMONIC 23 [%] LSW			RO	
40977	976	VRMS HARMONIC 23 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40978	977	VRMS HARMONIC 23 [%] LSW			RO	
40979	978	VRMS HARMONIC 23 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40980	979	VRMS HARMONIC 23 [%] LSW			RO	
40981	980	VRMS HARMONIC 24 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40982	981	VRMS HARMONIC 24 [%] LSW			RO	
40983	982	VRMS HARMONIC 24 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
40984	983	VRMS HARMONIC 24 [%] LSW			RO	
40985	984	VRMS HARMONIC 24 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in	RO	FLOAT32
40986	985	VRMS HARMONIC 24 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>40987</b>	986	VRMS HARMONIC 25 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40988</b>	987	VRMS HARMONIC 25 [%] LSW			RO	
<b>40989</b>	988	VRMS HARMONIC 25 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40990</b>	989	VRMS HARMONIC 25 [%] LSW			RO	
<b>40991</b>	990	VRMS HARMONIC 25 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40992</b>	991	VRMS HARMONIC 25 [%] LSW			RO	
<b>40993</b>	992	VRMS HARMONIC 26 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40994</b>	993	VRMS HARMONIC 26 [%] LSW			RO	
<b>40995</b>	994	VRMS HARMONIC 26 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40996</b>	995	VRMS HARMONIC 26 [%] LSW			RO	
<b>40997</b>	996	VRMS HARMONIC 26 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>40998</b>	997	VRMS HARMONIC 26 [%] LSW			RO	
<b>40999</b>	998	VRMS HARMONIC 27 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41000</b>	999	VRMS HARMONIC 27 [%] LSW			RO	
<b>41001</b>	1000	VRMS HARMONIC 27 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41002</b>	1001	VRMS HARMONIC 27 [%] LSW			RO	
<b>41003</b>	1002	VRMS HARMONIC 27 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage	RO	FLOAT32
<b>41004</b>	1003	VRMS HARMONIC 27 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>41005</b>	1004	VRMS HARMONIC 28 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41006</b>	1005	VRMS HARMONIC 28 [%] LSW			RO	
<b>41007</b>	1006	VRMS HARMONIC 28 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41008</b>	1007	VRMS HARMONIC 28 [%] LSW			RO	
<b>41009</b>	1008	VRMS HARMONIC 28 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41010</b>	1009	VRMS HARMONIC 28 [%] LSW			RO	
<b>41011</b>	1010	VRMS HARMONIC 29 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41012</b>	1011	VRMS HARMONIC 29 [%] LSW			RO	
<b>41013</b>	1012	VRMS HARMONIC 29 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41014</b>	1013	VRMS HARMONIC 29 [%] LSW			RO	
<b>41015</b>	1014	VRMS HARMONIC 29 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41016</b>	1015	VRMS HARMONIC 29 [%] LSW			RO	
<b>41017</b>	1016	VRMS HARMONIC 30 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41018</b>	1017	VRMS HARMONIC 30 [%] LSW			RO	
<b>41019</b>	1018	VRMS HARMONIC 30 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41020</b>	1019	VRMS HARMONIC 30 [%] LSW			RO	
<b>41021</b>	1020	VRMS HARMONIC 30 [%] MSW	L3-N		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41022	1021	VRMS HARMONIC 30 [%] LSW		Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	
41023	1022	VRMS HARMONIC 31 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41024	1023	VRMS HARMONIC 31 [%] LSW			RO	
41025	1024	VRMS HARMONIC 31 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41026	1025	VRMS HARMONIC 31 [%] LSW			RO	
41027	1026	VRMS HARMONIC 31 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41028	1027	VRMS HARMONIC 31 [%] LSW			RO	
41029	1028	VRMS HARMONIC 32 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41030	1029	VRMS HARMONIC 32 [%] LSW			RO	
41031	1030	VRMS HARMONIC 32 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41032	1031	VRMS HARMONIC 32 [%] LSW			RO	
41033	1032	VRMS HARMONIC 32 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41034	1033	VRMS HARMONIC 32 [%] LSW			RO	
41035	1034	VRMS HARMONIC 33 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41036	1035	VRMS HARMONIC 33 [%] LSW			RO	
41037	1036	VRMS HARMONIC 33 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in	RO	FLOAT32
41038	1037	VRMS HARMONIC 33 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>41039</b>	1038	VRMS HARMONIC 33 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41040</b>	1039	VRMS HARMONIC 33 [%] LSW			RO	
<b>41041</b>	1040	VRMS HARMONIC 34 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41042</b>	1041	VRMS HARMONIC 34 [%] LSW			RO	
<b>41043</b>	1042	VRMS HARMONIC 34 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41044</b>	1043	VRMS HARMONIC 34 [%] LSW			RO	
<b>41045</b>	1044	VRMS HARMONIC 34 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41046</b>	1045	VRMS HARMONIC 34 [%] LSW			RO	
<b>41047</b>	1046	VRMS HARMONIC 35 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41048</b>	1047	VRMS HARMONIC 35 [%] LSW			RO	
<b>41049</b>	1048	VRMS HARMONIC 35 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41050</b>	1049	VRMS HARMONIC 35 [%] LSW			RO	
<b>41051</b>	1050	VRMS HARMONIC 35 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41052</b>	1051	VRMS HARMONIC 35 [%] LSW			RO	
<b>41053</b>	1052	VRMS HARMONIC 36 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41054</b>	1053	VRMS HARMONIC 36 [%] LSW			RO	
<b>41055</b>	1054	VRMS HARMONIC 36 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage	RO	FLOAT32
<b>41056</b>	1055	VRMS HARMONIC 36 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>41057</b>	1056	VRMS HARMONIC 36 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41058</b>	1057	VRMS HARMONIC 36 [%] LSW			RO	
<b>41059</b>	1058	VRMS HARMONIC 37 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41060</b>	1059	VRMS HARMONIC 37 [%] LSW			RO	
<b>41061</b>	1060	VRMS HARMONIC 37 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41062</b>	1061	VRMS HARMONIC 37 [%] LSW			RO	
<b>41063</b>	1062	VRMS HARMONIC 37 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41064</b>	1063	VRMS HARMONIC 37 [%] LSW			RO	
<b>41065</b>	1064	VRMS HARMONIC 38 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41066</b>	1065	VRMS HARMONIC 38 [%] LSW			RO	
<b>41067</b>	1066	VRMS HARMONIC 38 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41068</b>	1067	VRMS HARMONIC 38 [%] LSW			RO	
<b>41069</b>	1068	VRMS HARMONIC 38 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41070</b>	1069	VRMS HARMONIC 38 [%] LSW			RO	
<b>41071</b>	1070	VRMS HARMONIC 39 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41072</b>	1071	VRMS HARMONIC 39 [%] LSW			RO	
<b>41073</b>	1072	VRMS HARMONIC 39 [%] MSW	L2-N		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41074	1073	VRMS HARMONIC 39 [%] LSW		Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	
41075	1074	VRMS HARMONIC 39 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41076	1075	VRMS HARMONIC 39 [%] LSW			RO	
41077	1076	VRMS HARMONIC 40 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41078	1077	VRMS HARMONIC 40 [%] LSW			RO	
41079	1078	VRMS HARMONIC 40 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41080	1079	VRMS HARMONIC 40 [%] LSW			RO	
41081	1080	VRMS HARMONIC 40 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41082	1081	VRMS HARMONIC 40 [%] LSW			RO	
41083	1082	VRMS HARMONIC 41 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41084	1083	VRMS HARMONIC 41 [%] LSW			RO	
41085	1084	VRMS HARMONIC 41 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41086	1085	VRMS HARMONIC 41 [%] LSW			RO	
41087	1086	VRMS HARMONIC 41 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41088	1087	VRMS HARMONIC 41 [%] LSW			RO	
41089	1088	VRMS HARMONIC 42 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in	RO	FLOAT32
41090	1089	VRMS HARMONIC 42 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>41091</b>	1090	VRMS HARMONIC 42 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41092</b>	1091	VRMS HARMONIC 42 [%] LSW			RO	
<b>41093</b>	1092	VRMS HARMONIC 42 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41094</b>	1093	VRMS HARMONIC 42 [%] LSW			RO	
<b>41095</b>	1094	VRMS HARMONIC 43 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41096</b>	1095	VRMS HARMONIC 43 [%] LSW			RO	
<b>41097</b>	1096	VRMS HARMONIC 43 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41098</b>	1097	VRMS HARMONIC 43 [%] LSW			RO	
<b>41099</b>	1098	VRMS HARMONIC 43 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41100</b>	1099	VRMS HARMONIC 43 [%] LSW			RO	
<b>41101</b>	1100	VRMS HARMONIC 44 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41102</b>	1101	VRMS HARMONIC 44 [%] LSW			RO	
<b>41103</b>	1102	VRMS HARMONIC 44 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41104</b>	1103	VRMS HARMONIC 44 [%] LSW			RO	
<b>41105</b>	1104	VRMS HARMONIC 44 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41106</b>	1105	VRMS HARMONIC 44 [%] LSW			RO	
<b>41107</b>	1106	VRMS HARMONIC 45 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage	RO	FLOAT32
<b>41108</b>	1107	VRMS HARMONIC 45 [%] LSW			RO	



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>41109</b>	1108	VRMS HARMONIC 45 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41110</b>	1109	VRMS HARMONIC 45 [%] LSW			RO	
<b>41111</b>	1110	VRMS HARMONIC 45 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41112</b>	1111	VRMS HARMONIC 45 [%] LSW			RO	
<b>41113</b>	1112	VRMS HARMONIC 46 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41114</b>	1113	VRMS HARMONIC 46 [%] LSW			RO	
<b>41115</b>	1114	VRMS HARMONIC 46 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41116</b>	1115	VRMS HARMONIC 46 [%] LSW			RO	
<b>41117</b>	1116	VRMS HARMONIC 46 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41118</b>	1117	VRMS HARMONIC 46 [%] LSW			RO	
<b>41119</b>	1118	VRMS HARMONIC 47 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41120</b>	1119	VRMS HARMONIC 47 [%] LSW			RO	
<b>41121</b>	1120	VRMS HARMONIC 47 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41122</b>	1121	VRMS HARMONIC 47 [%] LSW			RO	
<b>41123</b>	1122	VRMS HARMONIC 47 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41124</b>	1123	VRMS HARMONIC 47 [%] LSW			RO	
<b>41125</b>	1124	VRMS HARMONIC 48 [%] MSW	L1-N		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
<b>41126</b>	1125	VRMS HARMONIC 48 [%] LSW		Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	
<b>41127</b>	1126	VRMS HARMONIC 48 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41128</b>	1127	VRMS HARMONIC 48 [%] LSW			RO	
<b>41129</b>	1128	VRMS HARMONIC 48 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41130</b>	1129	VRMS HARMONIC 48 [%] LSW			RO	
<b>41131</b>	1130	VRMS HARMONIC 49 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41132</b>	1131	VRMS HARMONIC 49 [%] LSW			RO	
<b>41133</b>	1132	VRMS HARMONIC 49 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41134</b>	1133	VRMS HARMONIC 49 [%] LSW			RO	
<b>41135</b>	1134	VRMS HARMONIC 49 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41136</b>	1135	VRMS HARMONIC 49 [%] LSW			RO	
<b>41137</b>	1136	VRMS HARMONIC 50 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41138</b>	1137	VRMS HARMONIC 50 [%] LSW			RO	
<b>41139</b>	1138	VRMS HARMONIC 50 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41140</b>	1139	VRMS HARMONIC 50 [%] LSW			RO	
<b>41141</b>	1140	VRMS HARMONIC 50 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in	RO	FLOAT32
<b>41142</b>	1141	VRMS HARMONIC 50 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>41143</b>	1142	VRMS HARMONIC 51 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41144</b>	1143	VRMS HARMONIC 51 [%] LSW			RO	
<b>41145</b>	1144	VRMS HARMONIC 51 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41146</b>	1145	VRMS HARMONIC 51 [%] LSW			RO	
<b>41147</b>	1146	VRMS HARMONIC 51 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41148</b>	1147	VRMS HARMONIC 51 [%] LSW			RO	
<b>41149</b>	1148	VRMS HARMONIC 52 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41150</b>	1149	VRMS HARMONIC 52 [%] LSW			RO	
<b>41151</b>	1150	VRMS HARMONIC 52 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41152</b>	1151	VRMS HARMONIC 52 [%] LSW			RO	
<b>41153</b>	1152	VRMS HARMONIC 52 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41154</b>	1153	VRMS HARMONIC 52 [%] LSW			RO	
<b>41155</b>	1154	VRMS HARMONIC 53 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41156</b>	1155	VRMS HARMONIC 53 [%] LSW			RO	
<b>41157</b>	1156	VRMS HARMONIC 53 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41158</b>	1157	VRMS HARMONIC 53 [%] LSW			RO	
<b>41159</b>	1158	VRMS HARMONIC 53 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage	RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41160	1159	VRMS HARMONIC 53 [%] LSW		of the i-th harmonic in comparison with the fundamental [%]	RO	
41161	1160	VRMS HARMONIC 54 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41162	1161	VRMS HARMONIC 54 [%] LSW			RO	
41163	1162	VRMS HARMONIC 54 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41164	1163	VRMS HARMONIC 54 [%] LSW			RO	
41165	1164	VRMS HARMONIC 54 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41166	1165	VRMS HARMONIC 54 [%] LSW			RO	
41167	1166	VRMS HARMONIC 55 [%] MSW	L1-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41168	1167	VRMS HARMONIC 55 [%] LSW			RO	
41169	1168	VRMS HARMONIC 55 [%] MSW	L2-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41170	1169	VRMS HARMONIC 55 [%] LSW			RO	
41171	1170	VRMS HARMONIC 55 [%] MSW	L3-N	Measurement of the Phase - Neutral voltage of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41172	1171	VRMS HARMONIC 55 [%] LSW			RO	
41173	1172	IRMS HARMONIC 2 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41174	1173	IRMS HARMONIC 2 [%] LSW			RO	
41175	1174	IRMS HARMONIC 2 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41176	1175	IRMS HARMONIC 2 [%] LSW			RO	
41177	1176	IRMS HARMONIC 2 [%] MSW	L3		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41178	1177	IRMS HARMONIC 2 [%] LSW		Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	
41179	1178	IRMS HARMONIC 3 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41180	1179	IRMS HARMONIC 3 [%] LSW			RO	
41181	1180	IRMS HARMONIC 3 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41182	1181	IRMS HARMONIC 3 [%] LSW			RO	
41183	1182	IRMS HARMONIC 3 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41184	1183	IRMS HARMONIC 3 [%] LSW			RO	
41185	1184	IRMS HARMONIC 4 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41186	1185	IRMS HARMONIC 4 [%] LSW			RO	
41187	1186	IRMS HARMONIC 4 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41188	1187	IRMS HARMONIC 4 [%] LSW			RO	
41189	1188	IRMS HARMONIC 4 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41190	1189	IRMS HARMONIC 4 [%] LSW			RO	
41191	1190	IRMS HARMONIC 5 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41192	1191	IRMS HARMONIC 5 [%] LSW			RO	
41193	1192	IRMS HARMONIC 5 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in	RO	FLOAT32
41194	1193	IRMS HARMONIC 5 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>41195</b>	1194	IRMS HARMONIC 5 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41196</b>	1195	IRMS HARMONIC 5 [%] LSW			RO	
<b>41197</b>	1196	IRMS HARMONIC 6 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41198</b>	1197	IRMS HARMONIC 6 [%] LSW			RO	
<b>41199</b>	1198	IRMS HARMONIC 6 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41200</b>	1199	IRMS HARMONIC 6 [%] LSW			RO	
<b>41201</b>	1200	IRMS HARMONIC 6 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41202</b>	1201	IRMS HARMONIC 6 [%] LSW			RO	
<b>41203</b>	1202	IRMS HARMONIC 7 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41204</b>	1203	IRMS HARMONIC 7 [%] LSW			RO	
<b>41205</b>	1204	IRMS HARMONIC 7 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41206</b>	1205	IRMS HARMONIC 7 [%] LSW			RO	
<b>41207</b>	1206	IRMS HARMONIC 7 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41208</b>	1207	IRMS HARMONIC 7 [%] LSW			RO	
<b>41209</b>	1208	IRMS HARMONIC 8 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41210</b>	1209	IRMS HARMONIC 8 [%] LSW			RO	
<b>41211</b>	1210	IRMS HARMONIC 8 [%] MSW	L2	Measurement of the Phase - Neutral current	RO	FLOAT32
<b>41212</b>	1211	IRMS HARMONIC 8 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>41213</b>	1212	IRMS HARMONIC 8 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41214</b>	1213	IRMS HARMONIC 8 [%] LSW			RO	
<b>41215</b>	1214	IRMS HARMONIC 9 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41216</b>	1215	IRMS HARMONIC 9 [%] LSW			RO	
<b>41217</b>	1216	IRMS HARMONIC 9 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41218</b>	1217	IRMS HARMONIC 9 [%] LSW			RO	
<b>41219</b>	1218	IRMS HARMONIC 9 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41220</b>	1219	IRMS HARMONIC 9 [%] LSW			RO	
<b>41221</b>	1220	IRMS HARMONIC 10 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41222</b>	1221	IRMS HARMONIC 10 [%] LSW			RO	
<b>41223</b>	1222	IRMS HARMONIC 10 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41224</b>	1223	IRMS HARMONIC 10 [%] LSW			RO	
<b>41225</b>	1224	IRMS HARMONIC 10 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41226</b>	1225	IRMS HARMONIC 10 [%] LSW			RO	
<b>41227</b>	1226	IRMS HARMONIC 11 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41228</b>	1227	IRMS HARMONIC 11 [%] LSW			RO	
<b>41229</b>	1228	IRMS HARMONIC 11 [%] MSW	L2		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
<b>41230</b>	1229	IRMS HARMONIC 11 [%] LSW		Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	
<b>41231</b>	1230	IRMS HARMONIC 11 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41232</b>	1231	IRMS HARMONIC 11 [%] LSW			RO	
<b>41233</b>	1232	IRMS HARMONIC 12 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41234</b>	1233	IRMS HARMONIC 12 [%] LSW			RO	
<b>41235</b>	1234	IRMS HARMONIC 12 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41236</b>	1235	IRMS HARMONIC 12 [%] LSW			RO	
<b>41237</b>	1236	IRMS HARMONIC 12 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41238</b>	1237	IRMS HARMONIC 12 [%] LSW			RO	
<b>41239</b>	1238	IRMS HARMONIC 13 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41240</b>	1239	IRMS HARMONIC 13 [%] LSW			RO	
<b>41241</b>	1240	IRMS HARMONIC 13 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41242</b>	1241	IRMS HARMONIC 13 [%] LSW			RO	
<b>41243</b>	1242	IRMS HARMONIC 13 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41244</b>	1243	IRMS HARMONIC 13 [%] LSW			RO	
<b>41245</b>	1244	IRMS HARMONIC 14 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in	RO	FLOAT32
<b>41246</b>	1245	IRMS HARMONIC 14 [%] LSW			RO	



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>41247</b>	1246	IRMS HARMONIC 14 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41248</b>	1247	IRMS HARMONIC 14 [%] LSW			RO	
<b>41249</b>	1248	IRMS HARMONIC 14 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41250</b>	1249	IRMS HARMONIC 14 [%] LSW			RO	
<b>41251</b>	1250	IRMS HARMONIC 15 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41252</b>	1251	IRMS HARMONIC 15 [%] LSW			RO	
<b>41253</b>	1252	IRMS HARMONIC 15 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41254</b>	1253	IRMS HARMONIC 15 [%] LSW			RO	
<b>41255</b>	1254	IRMS HARMONIC 15 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41256</b>	1255	IRMS HARMONIC 15 [%] LSW			RO	
<b>41257</b>	1256	IRMS HARMONIC 16 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41258</b>	1257	IRMS HARMONIC 16 [%] LSW			RO	
<b>41259</b>	1258	IRMS HARMONIC 16 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41260</b>	1259	IRMS HARMONIC 16 [%] LSW			RO	
<b>41261</b>	1260	IRMS HARMONIC 16 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41262</b>	1261	IRMS HARMONIC 16 [%] LSW			RO	
<b>41263</b>	1262	IRMS HARMONIC 17 [%] MSW	L1	Measurement of the Phase - Neutral current	RO	FLOAT32
<b>41264</b>	1263	IRMS HARMONIC 17 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>41265</b>	1264	IRMS HARMONIC 17 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41266</b>	1265	IRMS HARMONIC 17 [%] LSW			RO	
<b>41267</b>	1266	IRMS HARMONIC 17 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41268</b>	1267	IRMS HARMONIC 17 [%] LSW			RO	
<b>41269</b>	1268	IRMS HARMONIC 18 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41270</b>	1269	IRMS HARMONIC 18 [%] LSW			RO	
<b>41271</b>	1270	IRMS HARMONIC 18 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41272</b>	1271	IRMS HARMONIC 18 [%] LSW			RO	
<b>41273</b>	1272	IRMS HARMONIC 18 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41274</b>	1273	IRMS HARMONIC 18 [%] LSW			RO	
<b>41275</b>	1274	IRMS HARMONIC 19 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41276</b>	1275	IRMS HARMONIC 19 [%] LSW			RO	
<b>41277</b>	1276	IRMS HARMONIC 19 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41278</b>	1277	IRMS HARMONIC 19 [%] LSW			RO	
<b>41279</b>	1278	IRMS HARMONIC 19 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41280</b>	1279	IRMS HARMONIC 19 [%] LSW			RO	
<b>41281</b>	1280	IRMS HARMONIC 20 [%] MSW	L1		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41282	1281	IRMS HARMONIC 20 [%] LSW		Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	
41283	1282	IRMS HARMONIC 20 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41284	1283	IRMS HARMONIC 20 [%] LSW			RO	
41285	1284	IRMS HARMONIC 20 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41286	1285	IRMS HARMONIC 20 [%] LSW			RO	
41287	1286	IRMS HARMONIC 21 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41288	1287	IRMS HARMONIC 21 [%] LSW			RO	
41289	1288	IRMS HARMONIC 21 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41290	1289	IRMS HARMONIC 21 [%] LSW			RO	
41291	1290	IRMS HARMONIC 21 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41292	1291	IRMS HARMONIC 21 [%] LSW			RO	
41293	1292	IRMS HARMONIC 22 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41294	1293	IRMS HARMONIC 22 [%] LSW			RO	
41295	1294	IRMS HARMONIC 22 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41296	1295	IRMS HARMONIC 22 [%] LSW			RO	
41297	1296	IRMS HARMONIC 22 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in	RO	FLOAT32
41298	1297	IRMS HARMONIC 22 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>41299</b>	1298	IRMS HARMONIC 23 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41300</b>	1299	IRMS HARMONIC 23 [%] LSW			RO	
<b>41301</b>	1300	IRMS HARMONIC 23 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41302</b>	1301	IRMS HARMONIC 23 [%] LSW			RO	
<b>41303</b>	1302	IRMS HARMONIC 23 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41304</b>	1303	IRMS HARMONIC 23 [%] LSW			RO	
<b>41305</b>	1304	IRMS HARMONIC 24 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41306</b>	1305	IRMS HARMONIC 24 [%] LSW			RO	
<b>41307</b>	1306	IRMS HARMONIC 24 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41308</b>	1307	IRMS HARMONIC 24 [%] LSW			RO	
<b>41309</b>	1308	IRMS HARMONIC 24 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41310</b>	1309	IRMS HARMONIC 24 [%] LSW			RO	
<b>41311</b>	1310	IRMS HARMONIC 25 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41312</b>	1311	IRMS HARMONIC 25 [%] LSW			RO	
<b>41313</b>	1312	IRMS HARMONIC 25 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41314</b>	1313	IRMS HARMONIC 25 [%] LSW			RO	
<b>41315</b>	1314	IRMS HARMONIC 25 [%] MSW	L3	Measurement of the Phase - Neutral current	RO	FLOAT32
<b>41316</b>	1315	IRMS HARMONIC 25 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>41317</b>	1316	IRMS HARMONIC 26 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41318</b>	1317	IRMS HARMONIC 26 [%] LSW			RO	
<b>41319</b>	1318	IRMS HARMONIC 26 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41320</b>	1319	IRMS HARMONIC 26 [%] LSW			RO	
<b>41321</b>	1320	IRMS HARMONIC 26 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41322</b>	1321	IRMS HARMONIC 26 [%] LSW			RO	
<b>41323</b>	1322	IRMS HARMONIC 27 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41324</b>	1323	IRMS HARMONIC 27 [%] LSW			RO	
<b>41325</b>	1324	IRMS HARMONIC 27 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41326</b>	1325	IRMS HARMONIC 27 [%] LSW			RO	
<b>41327</b>	1326	IRMS HARMONIC 27 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41328</b>	1327	IRMS HARMONIC 27 [%] LSW			RO	
<b>41329</b>	1328	IRMS HARMONIC 28 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41330</b>	1329	IRMS HARMONIC 28 [%] LSW			RO	
<b>41331</b>	1330	IRMS HARMONIC 28 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41332</b>	1331	IRMS HARMONIC 28 [%] LSW			RO	
<b>41333</b>	1332	IRMS HARMONIC 28 [%] MSW	L3		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41334	1333	IRMS HARMONIC 28 [%] LSW		Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	
41335	1334	IRMS HARMONIC 29 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41336	1335	IRMS HARMONIC 29 [%] LSW			RO	
41337	1336	IRMS HARMONIC 29 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41338	1337	IRMS HARMONIC 29 [%] LSW			RO	
41339	1338	IRMS HARMONIC 29 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41340	1339	IRMS HARMONIC 29 [%] LSW			RO	
41341	1340	IRMS HARMONIC 30 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41342	1341	IRMS HARMONIC 30 [%] LSW			RO	
41343	1342	IRMS HARMONIC 30 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41344	1343	IRMS HARMONIC 30 [%] LSW			RO	
41345	1344	IRMS HARMONIC 30 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41346	1345	IRMS HARMONIC 30 [%] LSW			RO	
41347	1346	IRMS HARMONIC 31 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41348	1347	IRMS HARMONIC 31 [%] LSW			RO	
41349	1348	IRMS HARMONIC 31 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in	RO	FLOAT32
41350	1349	IRMS HARMONIC 31 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>41351</b>	1350	IRMS HARMONIC 31 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41352</b>	1351	IRMS HARMONIC 31 [%] LSW			RO	
<b>41353</b>	1352	IRMS HARMONIC 32 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41354</b>	1353	IRMS HARMONIC 32 [%] LSW			RO	
<b>41355</b>	1354	IRMS HARMONIC 32 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41356</b>	1355	IRMS HARMONIC 32 [%] LSW			RO	
<b>41357</b>	1356	IRMS HARMONIC 32 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41358</b>	1357	IRMS HARMONIC 32 [%] LSW			RO	
<b>41359</b>	1358	IRMS HARMONIC 33 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41360</b>	1359	IRMS HARMONIC 33 [%] LSW			RO	
<b>41361</b>	1360	IRMS HARMONIC 33 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41362</b>	1361	IRMS HARMONIC 33 [%] LSW			RO	
<b>41363</b>	1362	IRMS HARMONIC 33 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41364</b>	1363	IRMS HARMONIC 33 [%] LSW			RO	
<b>41365</b>	1364	IRMS HARMONIC 34 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41366</b>	1365	IRMS HARMONIC 34 [%] LSW			RO	
<b>41367</b>	1366	IRMS HARMONIC 34 [%] MSW	L2	Measurement of the Phase - Neutral current	RO	FLOAT32
<b>41368</b>	1367	IRMS HARMONIC 34 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>41369</b>	1368	IRMS HARMONIC 34 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41370</b>	1369	IRMS HARMONIC 34 [%] LSW			RO	
<b>41371</b>	1370	IRMS HARMONIC 35 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41372</b>	1371	IRMS HARMONIC 35 [%] LSW			RO	
<b>41373</b>	1372	IRMS HARMONIC 35 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41374</b>	1373	IRMS HARMONIC 35 [%] LSW			RO	
<b>41375</b>	1374	IRMS HARMONIC 35 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41376</b>	1375	IRMS HARMONIC 35 [%] LSW			RO	
<b>41377</b>	1376	IRMS HARMONIC 36 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41378</b>	1377	IRMS HARMONIC 36 [%] LSW			RO	
<b>41379</b>	1378	IRMS HARMONIC 36 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41380</b>	1379	IRMS HARMONIC 36 [%] LSW			RO	
<b>41381</b>	1380	IRMS HARMONIC 36 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41382</b>	1381	IRMS HARMONIC 36 [%] LSW			RO	
<b>41383</b>	1382	IRMS HARMONIC 37 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41384</b>	1383	IRMS HARMONIC 37 [%] LSW			RO	
<b>41385</b>	1384	IRMS HARMONIC 37 [%] MSW	L2		RO	FLOAT32



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41386	1385	IRMS HARMONIC 37 [%] LSW		Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	
41387	1386	IRMS HARMONIC 37 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41388	1387	IRMS HARMONIC 37 [%] LSW			RO	
41389	1388	IRMS HARMONIC 38 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41390	1389	IRMS HARMONIC 38 [%] LSW			RO	
41391	1390	IRMS HARMONIC 38 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41392	1391	IRMS HARMONIC 38 [%] LSW			RO	
41393	1392	IRMS HARMONIC 38 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41394	1393	IRMS HARMONIC 38 [%] LSW			RO	
41395	1394	IRMS HARMONIC 39 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41396	1395	IRMS HARMONIC 39 [%] LSW			RO	
41397	1396	IRMS HARMONIC 39 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41398	1397	IRMS HARMONIC 39 [%] LSW			RO	
41399	1398	IRMS HARMONIC 39 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41400	1399	IRMS HARMONIC 39 [%] LSW			RO	
41401	1400	IRMS HARMONIC 40 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in	RO	FLOAT32
41402	1401	IRMS HARMONIC 40 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>41403</b>	1402	IRMS HARMONIC 40 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41404</b>	1403	IRMS HARMONIC 40 [%] LSW			RO	
<b>41405</b>	1404	IRMS HARMONIC 40 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41406</b>	1405	IRMS HARMONIC 40 [%] LSW			RO	
<b>41407</b>	1406	IRMS HARMONIC 41 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41408</b>	1407	IRMS HARMONIC 41 [%] LSW			RO	
<b>41409</b>	1408	IRMS HARMONIC 41 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41410</b>	1409	IRMS HARMONIC 41 [%] LSW			RO	
<b>41411</b>	1410	IRMS HARMONIC 41 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41412</b>	1411	IRMS HARMONIC 41 [%] LSW			RO	
<b>41413</b>	1412	IRMS HARMONIC 42 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41414</b>	1413	IRMS HARMONIC 42 [%] LSW			RO	
<b>41415</b>	1414	IRMS HARMONIC 42 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41416</b>	1415	IRMS HARMONIC 42 [%] LSW			RO	
<b>41417</b>	1416	IRMS HARMONIC 42 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41418</b>	1417	IRMS HARMONIC 42 [%] LSW			RO	
<b>41419</b>	1418	IRMS HARMONIC 43 [%] MSW	L1	Measurement of the Phase - Neutral current	RO	FLOAT32
<b>41420</b>	1419	IRMS HARMONIC 43 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>41421</b>	1420	IRMS HARMONIC 43 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41422</b>	1421	IRMS HARMONIC 43 [%] LSW			RO	
<b>41423</b>	1422	IRMS HARMONIC 43 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41424</b>	1423	IRMS HARMONIC 43 [%] LSW			RO	
<b>41425</b>	1424	IRMS HARMONIC 44 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41426</b>	1425	IRMS HARMONIC 44 [%] LSW			RO	
<b>41427</b>	1426	IRMS HARMONIC 44 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41428</b>	1427	IRMS HARMONIC 44 [%] LSW			RO	
<b>41429</b>	1428	IRMS HARMONIC 44 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41430</b>	1429	IRMS HARMONIC 44 [%] LSW			RO	
<b>41431</b>	1430	IRMS HARMONIC 45 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41432</b>	1431	IRMS HARMONIC 45 [%] LSW			RO	
<b>41433</b>	1432	IRMS HARMONIC 45 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41434</b>	1433	IRMS HARMONIC 45 [%] LSW			RO	
<b>41435</b>	1434	IRMS HARMONIC 45 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41436</b>	1435	IRMS HARMONIC 45 [%] LSW			RO	
<b>41437</b>	1436	IRMS HARMONIC 46 [%] MSW	L1		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41438	1437	IRMS HARMONIC 46 [%] LSW		Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	
41439	1438	IRMS HARMONIC 46 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41440	1439	IRMS HARMONIC 46 [%] LSW			RO	
41441	1440	IRMS HARMONIC 46 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41442	1441	IRMS HARMONIC 46 [%] LSW			RO	
41443	1442	IRMS HARMONIC 47 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41444	1443	IRMS HARMONIC 47 [%] LSW			RO	
41445	1444	IRMS HARMONIC 47 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41446	1445	IRMS HARMONIC 47 [%] LSW			RO	
41447	1446	IRMS HARMONIC 47 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41448	1447	IRMS HARMONIC 47 [%] LSW			RO	
41449	1448	IRMS HARMONIC 48 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41450	1449	IRMS HARMONIC 48 [%] LSW			RO	
41451	1450	IRMS HARMONIC 48 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41452	1451	IRMS HARMONIC 48 [%] LSW			RO	
41453	1452	IRMS HARMONIC 48 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in	RO	FLOAT32
41454	1453	IRMS HARMONIC 48 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				comparison with the fundamental [%]		
<b>41455</b>	1454	IRMS HARMONIC 49 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41456</b>	1455	IRMS HARMONIC 49 [%] LSW			RO	
<b>41457</b>	1456	IRMS HARMONIC 49 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41458</b>	1457	IRMS HARMONIC 49 [%] LSW			RO	
<b>41459</b>	1458	IRMS HARMONIC 49 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41460</b>	1459	IRMS HARMONIC 49 [%] LSW			RO	
<b>41461</b>	1460	IRMS HARMONIC 50 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41462</b>	1461	IRMS HARMONIC 50 [%] LSW			RO	
<b>41463</b>	1462	IRMS HARMONIC 50 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41464</b>	1463	IRMS HARMONIC 50 [%] LSW			RO	
<b>41465</b>	1464	IRMS HARMONIC 50 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41466</b>	1465	IRMS HARMONIC 50 [%] LSW			RO	
<b>41467</b>	1466	IRMS HARMONIC 51 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41468</b>	1467	IRMS HARMONIC 51 [%] LSW			RO	
<b>41469</b>	1468	IRMS HARMONIC 51 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41470</b>	1469	IRMS HARMONIC 51 [%] LSW			RO	
<b>41471</b>	1470	IRMS HARMONIC 51 [%] MSW	L3	Measurement of the Phase - Neutral current	RO	FLOAT32
<b>41472</b>	1471	IRMS HARMONIC 51 [%] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				of the i-th harmonic in comparison with the fundamental [%]		
<b>41473</b>	1472	IRMS HARMONIC 52 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41474</b>	1473	IRMS HARMONIC 52 [%] LSW			RO	
<b>41475</b>	1474	IRMS HARMONIC 52 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41476</b>	1475	IRMS HARMONIC 52 [%] LSW			RO	
<b>41477</b>	1476	IRMS HARMONIC 52 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41478</b>	1477	IRMS HARMONIC 52 [%] LSW			RO	
<b>41479</b>	1478	IRMS HARMONIC 53 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41480</b>	1479	IRMS HARMONIC 53 [%] LSW			RO	
<b>41481</b>	1480	IRMS HARMONIC 53 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41482</b>	1481	IRMS HARMONIC 53 [%] LSW			RO	
<b>41483</b>	1482	IRMS HARMONIC 53 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41484</b>	1483	IRMS HARMONIC 53 [%] LSW			RO	
<b>41485</b>	1484	IRMS HARMONIC 54 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41486</b>	1485	IRMS HARMONIC 54 [%] LSW			RO	
<b>41487</b>	1486	IRMS HARMONIC 54 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
<b>41488</b>	1487	IRMS HARMONIC 54 [%] LSW			RO	
<b>41489</b>	1488	IRMS HARMONIC 54 [%] MSW	L3		RO	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41490	1489	IRMS HARMONIC 54 [%] LSW		Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	
41491	1490	IRMS HARMONIC 55 [%] MSW	L1	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41492	1491	IRMS HARMONIC 55 [%] LSW			RO	
41493	1492	IRMS HARMONIC 55 [%] MSW	L2	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41494	1493	IRMS HARMONIC 55 [%] LSW			RO	
41495	1494	IRMS HARMONIC 55 [%] MSW	L3	Measurement of the Phase - Neutral current of the i-th harmonic in comparison with the fundamental [%]	RO	FLOAT32
41496	1495	IRMS HARMONIC 55 [%] LSW			RO	
41497	1496	VRMS AVG [V] MSW	L1	Average VRMS calculated over the configured average time [V]	RO	FLOAT32
41498	1497	VRMS AVG [V] LSW			RO	
41499	1498	VRMS AVG MIN [V] MSW	L1	Minimum VRMS calculated over the configured average time [V]	RW	FLOAT32
41500	1499	VRMS AVG MIN [V] LSW			RW	
41501	1500	VRMS AVG MAX [V] MSW	L1	Maximum VRMS calculated over the configured average time [V]	RW	FLOAT32
41502	1501	VRMS AVG MAX [V] LSW			RW	
41503	1502	VRMS MIN [V] MSW	L1	Device minimum VRMS [V]	RW	FLOAT32
41504	1503	VRMS MIN [V] LSW			RW	
41505	1504	VRMS MAX [V] MSW	L1	Device maximum VRMS [V]	RW	FLOAT32
41506	1505	VRMS MAX [V] LSW			RW	
41507	1506	VRMS AVG [V] MSW	L2	Average VRMS calculated over the configured average time [V]	RO	FLOAT32
41508	1507	VRMS AVG [V] LSW			RO	
41509	1508	VRMS AVG MIN [V] MSW	L2	Minimum VRMS calculated over the configured average time [V]	RW	FLOAT32
41510	1509	VRMS AVG MIN [V] LSW			RW	
41511	1510	VRMS AVG MAX [V] MSW	L2	Maximum VRMS calculated over the	RW	FLOAT32
41512	1511	VRMS AVG MAX [V] LSW			RW	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				configured average time [V]		
<b>41513</b>	1512	VRMS MIN [V] MSW	L2	Device minimum VRMS [V]	RW	FLOAT32
<b>41514</b>	1513	VRMS MIN [V] LSW			RW	
<b>41515</b>	1514	VRMS MAX [V] MSW	L2	Device maximum VRMS [V]	RW	FLOAT32
<b>41516</b>	1515	VRMS MAX [V] LSW			RW	
<b>41517</b>	1516	VRMS AVG [V] MSW	L3	Average VRMS calculated over the configured average time [V]	RO	FLOAT32
<b>41518</b>	1517	VRMS AVG [V] LSW			RO	
<b>41519</b>	1518	VRMS AVG MIN [V] MSW	L3	Minimum VRMS calculated over the configured average time [V]	RW	FLOAT32
<b>41520</b>	1519	VRMS AVG MIN [V] LSW			RW	
<b>41521</b>	1520	VRMS AVG MAX [V] MSW	L3	Maximum VRMS calculated over the configured average time [V]	RW	FLOAT32
<b>41522</b>	1521	VRMS AVG MAX [V] LSW			RW	
<b>41523</b>	1522	VRMS MIN [V] MSW	L3	Device minimum VRMS [V]	RW	FLOAT32
<b>41524</b>	1523	VRMS MIN [V] LSW			RW	
<b>41525</b>	1524	VRMS MAX [V] MSW	L3	Device maximum VRMS [V]	RW	FLOAT32
<b>41526</b>	1525	VRMS MAX [V] LSW			RW	
<b>41527</b>	1526	IRMS AVG MSW [A]	L1	Average IRMS calculated over the configured average time [A]	RO	FLOAT32
<b>41528</b>	1527	IRMS AVG LSW [A]			RO	
<b>41529</b>	1528	IRMS AVG MIN MSW [A]	L1	Minimum IRMS calculated over the configured average time [A]	RW	FLOAT32
<b>41530</b>	1529	IRMS AVG MIN LSW [A]			RW	
<b>41531</b>	1530	IRMS AVG MAX MSW [A]	L1	Maximum IRMS calculated over the configured average time [A]	RW	FLOAT32
<b>41532</b>	1531	IRMS AVG MAX LSW [A]			RW	
<b>41533</b>	1532	IRMS MIN MSW [A]	L1	Minimum IRMS since device power up [A]	RW	FLOAT32
<b>41534</b>	1533	IRMS MIN LSW [A]			RW	
<b>41535</b>	1534	IRMS MAX MSW [A]	L1	Device maximum IRMS [A]	RW	FLOAT32
<b>41536</b>	1535	IRMS MAX LSW [A]			RW	
<b>41537</b>	1536	IRMS AVG MSW [A]	L2	Average IRMS calculated over the configured average time [A]	RO	FLOAT32
<b>41538</b>	1537	IRMS AVG LSW [A]			RO	
<b>41539</b>	1538	IRMS AVG MIN MSW [A]	L2	Minimum IRMS calculated over the configured average time [A]	RW	FLOAT32
<b>41540</b>	1539	IRMS AVG MIN LSW [A]			RW	
<b>41541</b>	1540	IRMS AVG MAX MSW [A]	L2		RW	FLOAT32



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41542	1541	IRMS AVG MAX LSW [A]		Maximum IRMS calculated over the configured average time [A]	RW	
41543	1542	IRMS MIN MSW [A]	L2	Device minimum IRMS [A]	RW	FLOAT32
41544	1543	IRMS MIN LSW [A]			RW	
41545	1544	IRMS MAX MSW [A]	L2	Maximum IRMS since device power up [A]	RW	FLOAT32
41546	1545	IRMS MAX LSW [A]			RW	
41547	1546	IRMS AVG MSW [A]	L3	Average IRMS calculated over the configured average time [A]	RO	FLOAT32
41548	1547	IRMS AVG LSW [A]			RO	
41549	1548	IRMS AVG MIN MSW [A]	L3	Minimum IRMS calculated over the configured average time [A]	RW	FLOAT32
41550	1549	IRMS AVG MIN LSW [A]			RW	
41551	1550	IRMS AVG MAX MSW [A]	L3	Maximum IRMS calculated over the configured average time [A]	RW	FLOAT32
41552	1551	IRMS AVG MAX LSW [A]			RW	
41553	1552	IRMS MIN MSW [A]	L3	Device minimum IRMS [A]	RW	FLOAT32
41554	1553	IRMS MIN LSW [A]			RW	
41555	1554	IRMS MAX MSW [A]	L3	Device maximum IRMS [A]	RW	FLOAT32
41556	1555	IRMS MAX LSW [A]			RW	
41557	1556	VRMS AVG [V] MSW	L1-L2	Average VRMS calculated over the configured average time [V]	RO	FLOAT32
41558	1557	VRMS AVG [V] LSW			RO	
41559	1558	VRMS AVG MIN [V] MSW	L1-L2	Minimum VRMS calculated over the configured average time [V]	RW	FLOAT32
41560	1559	VRMS AVG MIN [V] LSW			RW	
41561	1560	VRMS AVG MAX [V] MSW	L1-L2	Maximum VRMS calculated over the configured average time [V]	RW	FLOAT32
41562	1561	VRMS AVG MAX [V] LSW			RW	
41563	1562	VRMS MIN [V] MSW	L1-L2	Minimum VRMS since device power up [V]	RW	FLOAT32
41564	1563	VRMS MIN [V] LSW			RW	
41565	1564	VRMS MAX [V] MSW	L1-L2	Maximum VRMS since device power up [V]	RW	FLOAT32
41566	1565	VRMS MAX [V] LSW			RW	
41567	1566	VRMS AVG [V] MSW	L2-L3	Average VRMS calculated over the configured average time [V]	RO	FLOAT32
41568	1567	VRMS AVG [V] LSW			RO	
41569	1568	VRMS AVG MIN [V] MSW	L2-L3	Minimum VRMS calculated over the	RW	FLOAT32
41570	1569	VRMS AVG MIN [V] LSW			RW	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
				configured average time [V]		
<b>41571</b>	1570	VRMS AVG MAX [V] MSW	L2-L3	Maximum VRMS calculated over the configured average time [V]	RW	FLOAT32
<b>41572</b>	1571	VRMS AVG MAX [V] LSW			RW	
<b>41573</b>	1572	VRMS MIN [V] MSW	L2-L3	Minimum VRMS since device power up [V]	RW	FLOAT32
<b>41574</b>	1573	VRMS MIN [V] LSW			RW	
<b>41575</b>	1574	VRMS MAX [V] MSW	L2-L3	Maximum VRMS since device power up [V]	RW	FLOAT32
<b>41576</b>	1575	VRMS MAX [V] LSW			RW	
<b>41577</b>	1576	VRMS AVG [V] MSW	L3-L1	Average VRMS calculated over the configured average time [V]	RO	FLOAT32
<b>41578</b>	1577	VRMS AVG [V] LSW			RO	
<b>41579</b>	1578	VRMS AVG MIN [V] MSW	L3-L1	Minimum VRMS calculated over the configured average time [V]	RW	FLOAT32
<b>41580</b>	1579	VRMS AVG MIN [V] LSW			RW	
<b>41581</b>	1580	VRMS AVG MAX [V] MSW	L3-L1	Maximum VRMS calculated over the configured average time [V]	RW	FLOAT32
<b>41582</b>	1581	VRMS AVG MAX [V] LSW			RW	
<b>41583</b>	1582	VRMS MIN [V] MSW	L3-L1	Minimum VRMS since device power up [V]	RW	FLOAT32
<b>41584</b>	1583	VRMS MIN [V] LSW			RW	
<b>41585</b>	1584	VRMS MAX [V] MSW	L3-L1	Maximum VRMS since device power up [V]	RW	FLOAT32
<b>41586</b>	1585	VRMS MAX [V] LSW			RW	
<b>41587</b>	1586	P AVG [W] MSW	L1	Average Active Power calculated over the configured average time [W]	RO	FLOAT32
<b>41588</b>	1587	P AVG [W] LSW			RO	
<b>41589</b>	1588	P AVG MIN [W] MSW	L1	Minimum Active Power calculated over the configured average time [W]	RW	FLOAT32
<b>41590</b>	1589	P AVG MIN [W] LSW			RW	
<b>41591</b>	1590	P AVG MAX [W] MSW	L1	Maximum Active Power calculated over the configured average time [W]	RW	FLOAT32
<b>41592</b>	1591	P AVG MAX [W] LSW			RW	
<b>41593</b>	1592	P MIN [W] MSW	L1	Minimum Active Power since device power up [W]	RW	FLOAT32
<b>41594</b>	1593	P MIN [W] LSW			RW	
<b>41595</b>	1594	P MAX [W] MSW	L1	Maximum Active Power since device power up [W]	RW	FLOAT32
<b>41596</b>	1595	P MAX [W] LSW			RW	
<b>41597</b>	1596	P AVG [W] MSW	L2	Average Active Power calculated over the configured average time [W]	RO	FLOAT32
<b>41598</b>	1597	P AVG [W] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41599	1598	P AVG MIN [W] MSW	L2	Minimum Active Power calculated over the configured average time [W]	RW	FLOAT32
41600	1599	P AVG MIN [W] LSW			RW	
41601	1600	P AVG MAX [W] MSW	L2	Maximum Active Power calculated over the configured average time [WA]	RW	FLOAT32
41602	1601	P AVG MAX [W] LSW			RW	
41603	1602	P MIN [W] MSW	L2	Minimum Active Power since device power up [W]	RW	FLOAT32
41604	1603	P MIN [W] LSW			RW	
41605	1604	P MAX [W] MSW	L2	Maximum Active Power since device power up [W]	RW	FLOAT32
41606	1605	P MAX [W] LSW			RW	
41607	1606	P AVG [W] MSW	L3	Average Active Power calculated over the configured average time [W]	RO	FLOAT32
41608	1607	P AVG [W] LSW			RO	
41609	1608	P AVG MIN [W] MSW	L3	Minimum Active Power calculated over the configured average time [W]	RW	FLOAT32
41610	1609	P AVG MIN [W] LSW			RW	
41611	1610	P AVG MAX [W] MSW	L3	Maximum Active Power calculated over the configured average time [WA]	RW	FLOAT32
41612	1611	P AVG MAX [W] LSW			RW	
41613	1612	P MIN [W] MSW	L3	Minimum Active Power since device power up [W]	RW	FLOAT32
41614	1613	P MIN [W] LSW			RW	
41615	1614	P MAX [W] MSW	L3	Maximum Active Power since device power up [W]	RW	FLOAT32
41616	1615	P MAX [W] LSW			RW	
41617	1616	Q AVG [VAR] MSW	L1	Average Reactive Power calculated over the configured average time [VAR]	RO	FLOAT32
41618	1617	Q AVG [VAR] LSW			RO	
41619	1618	Q AVG MIN [VAR] MSW	L1	Minimum Reactive Power calculated over the configured average time [VAR]	RW	FLOAT32
41620	1619	Q AVG MIN [VAR] LSW			RW	
41621	1620	Q AVG MAX [VAR] MSW	L1	Maximum Reactive Power calculated over the configured average time [VAR]	RW	FLOAT32
41622	1621	Q AVG MAX [VAR] LSW			RW	
41623	1622	Q MIN [VAR] MSW	L1	Minimum Reactive Power since device power up [VAR]	RW	FLOAT32
41624	1623	Q MIN [VAR] LSW			RW	
41625	1624	Q MAX [VAR] MSW	L1	Maximum Reactive Power since device power up [VAR]	RW	FLOAT32
41626	1625	Q MAX [VAR] LSW			RW	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41627	1626	Q AVG [VAR] MSW	L2	Average Reactive Power calculated over the configured average time [VAR]	RO	FLOAT32
41628	1627	Q AVG [VAR] LSW			RO	
41629	1628	Q AVG MIN [VAR] MSW	L2	Minimum Reactive Power calculated over the configured average time [VAR]	RW	FLOAT32
41630	1629	Q AVG MIN [VAR] LSW			RW	
41631	1630	Q AVG MAX [VAR] MSW	L2	Maximum Reactive Power calculated over the configured average time [VAR]	RW	FLOAT32
41632	1631	Q AVG MAX [VAR] LSW			RW	
41633	1632	Q MIN [VAR] MSW	L2	Minimum Reactive Power since device power up [VAR]	RW	FLOAT32
41634	1633	Q MIN [VAR] LSW			RW	
41635	1634	Q MAX [VAR] MSW	L2	Maximum Reactive Power since device power up [VAR]	RW	FLOAT32
41636	1635	Q MAX [VAR] LSW			RW	
41637	1636	Q AVG [VAR] MSW	L3	Average Reactive Power calculated over the configured average time [VAR]	RO	FLOAT32
41638	1637	Q AVG [VAR] LSW			RO	
41639	1638	Q AVG MIN [VAR] MSW	L3	Minimum Reactive Power calculated over the configured average time [VAR]	RW	FLOAT32
41640	1639	Q AVG MIN [VAR] LSW			RW	
41641	1640	Q AVG MAX [VAR] MSW	L3	Maximum Reactive Power calculated over the configured average time [VAR]	RW	FLOAT32
41642	1641	Q AVG MAX [VAR] LSW			RW	
41643	1642	Q MIN [VAR] MSW	L3	Minimum Reactive Power since device power up [VAR]	RW	FLOAT32
41644	1643	Q MIN [VAR] LSW			RW	
41645	1644	Q MAX [VAR] MSW	L3	Maximum Reactive Power since device power up [VAR]	RW	FLOAT32
41646	1645	Q MAX [VAR] LSW			RW	
41647	1646	S AVG [VA] MSW	L1	Average Apparent Power calculated over the configured average time [VA]	RO	FLOAT32
41648	1647	S AVG [VA] LSW			RO	
41649	1648	S AVG MIN [VA] MSW	L1	Minimum Apparent Power calculated over the configured average time [VA]	RW	FLOAT32
41650	1649	S AVG MIN [VA] LSW			RW	
41651	1650	S AVG MAX [VA] MSW	L1	Maximum Apparent Power calculated over the configured average time [VA]	RW	FLOAT32
41652	1651	S AVG MAX [VA] LSW			RW	
41653	1652	S MIN [VA] MSW	L1		RW	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41654	1653	S MIN [VA] LSW		Minimum Apparent Power since device power up [VA]	RW	
41655	1654	S MAX [VA] MSW	L1	Maximum Apparent Power since device power up [VA]	RW	FLOAT32
41656	1655	S MAX [VA] LSW			RW	
41657	1656	S AVG [VA] MSW	L2	Average Apparent Power calculated over the configured average time [VA]	RO	FLOAT32
41658	1657	S AVG [VA] LSW			RO	
41659	1658	S AVG MIN [VA] MSW	L2	Minimum Apparent Power calculated over the configured average time [VA]	RW	FLOAT32
41660	1659	S AVG MIN [VA] LSW			RW	
41661	1660	S AVG MAX [VA] MSW	L2	Maximum Apparent Power calculated over the configured average time [VA]	RW	FLOAT32
41662	1661	S AVG MAX [VA] LSW			RW	
41663	1662	S MIN [VA] MSW	L2	Minimum Apparent Power since device power up [VA]	RW	FLOAT32
41664	1663	S MIN [VA] LSW			RW	
41665	1664	S MAX [VA] MSW	L2	Maximum Apparent Power since device power up [VA]	RW	FLOAT32
41666	1665	S MAX [VA] LSW			RW	
41667	1666	S AVG [VA] MSW	L3	Average Apparent Power calculated over the configured average time [VA]	RO	FLOAT32
41668	1667	S AVG [VA] LSW			RO	
41669	1668	S AVG MIN [VA] MSW	L3	Minimum Apparent Power calculated over the configured average time [VA]	RW	FLOAT32
41670	1669	S AVG MIN [VA] LSW			RW	
41671	1670	S AVG MAX [VA] MSW	L3	Maximum Apparent Power calculated over the configured average time [VA]	RW	FLOAT32
41672	1671	S AVG MAX [VA] LSW			RW	
41673	1672	S MIN [VA] MSW	L3	Minimum Apparent Power since device power up [VA]	RW	FLOAT32
41674	1673	S MIN [VA] LSW			RW	
41675	1674	S MAX [VA] MSW	L3	Maximum Apparent Power since device power up [VA]	RW	FLOAT32
41676	1675	S MAX [VA] LSW			RW	
41677	1676	PF AVG MSW	L1	Average Power Factor calculated over the configured average time	RO	FLOAT32
41678	1677	PF AVG LSW			RO	
41679	1678	PF AVG MIN MSW	L1	Minimum Power Factor calculated over the configured average time	RW	FLOAT32
41680	1679	PF AVG MIN LSW			RW	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41681	1680	PF AVG MAX MSW	L1	Maximum Power Factor calculated over the configured average time	RW	FLOAT32
41682	1681	PF AVG MAX LSW			RW	
41683	1682	PF MIN MSW	L1	Minimum Power Factor since device power up	RW	FLOAT32
41684	1683	PF MIN LSW			RW	
41685	1684	PF MAX MSW	L1	Maximum Power Factor since device power up	RW	FLOAT32
41686	1685	PF MAX LSW			RW	
41687	1686	PF AVG MSW	L2	Average Power Factor calculated over the configured average time	RO	FLOAT32
41688	1687	PF AVG LSW			RO	
41689	1688	PF AVG MIN MSW	L2	Minimum Power Factor calculated over the configured average time	RW	FLOAT32
41690	1689	PF AVG MIN LSW			RW	
41691	1690	PF AVG MAX MSW	L2	Maximum Power Factor calculated over the configured average time	RW	FLOAT32
41692	1691	PF AVG MAX LSW			RW	
41693	1692	PF MIN MSW	L2	Minimum Power Factor since device power up	RW	FLOAT32
41694	1693	PF MIN LSW			RW	
41695	1694	PF MAX MSW	L2	Maximum Power Factor since device power up	RW	FLOAT32
41696	1695	PF MAX LSW			RW	
41697	1696	PF AVG MSW	L3	Average Power Factor calculated over the configured average time	RO	FLOAT32
41698	1697	PF AVG LSW			RO	
41699	1698	PF AVG MIN MSW	L3	Minimum Power Factor calculated over the configured average time	RW	FLOAT32
41700	1699	PF AVG MIN LSW			RW	
41701	1700	PF AVG MAX MSW	L3	Maximum Power Factor calculated over the configured average time	RW	FLOAT32
41702	1701	PF AVG MAX LSW			RW	
41703	1702	PF MIN MSW	L3	Minimum Power Factor since device power up	RW	FLOAT32
41704	1703	PF MIN LSW			RW	
41705	1704	PF MAX MSW	L3	Maximum Power Factor since device power up	RW	FLOAT32
41706	1705	PF MAX LSW			RW	
41707	1706	P AVG [W] MSW	3PH	Average Active Power calculated over the configured average time [W]	RO	FLOAT32
41708	1707	P AVG [W] LSW			RO	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41709	1708	P AVG MIN [W] MSW	3PH	Minimum Active Power calculated over the configured average time [W]	RW	FLOAT32
41710	1709	P AVG MIN [W] LSW			RW	
41711	1710	P AVG MAX [W] MSW	3PH	Maximum Active Power calculated over the configured average time [WA]	RW	FLOAT32
41712	1711	P AVG MAX [W] LSW			RW	
41713	1712	P MIN [W] MSW	3PH	Minimum Active Power since device power up [W]	RW	FLOAT32
41714	1713	P MIN [W] LSW			RW	
41715	1714	P MAX [W] MSW	3PH	Maximum Active Power since device power up [W]	RW	FLOAT32
41716	1715	P MAX [W] LSW			RW	
41717	1716	Q AVG [VAR] MSW	3PH	Average Reactive Power calculated over the configured average time [VAR]	RO	FLOAT32
41718	1717	Q AVG [VAR] LSW			RO	
41719	1718	Q AVG MIN [VAR] MSW	3PH	Minimum Reactive Power calculated over the configured average time [VAR]	RW	FLOAT32
41720	1719	Q AVG MIN [VAR] LSW			RW	
41721	1720	Q AVG MAX [VAR] MSW	3PH	Maximum Reactive Power calculated over the configured average time [VAR]	RW	FLOAT32
41722	1721	Q AVG MAX [VAR] LSW			RW	
41723	1722	Q MIN [VAR] MSW	3PH	Minimum Reactive Power since device power up [VAR]	RW	FLOAT32
41724	1723	Q MIN [VAR] LSW			RW	
41725	1724	Q MAX [VAR] MSW	3PH	Maximum Reactive Power since device power up [VAR]	RW	FLOAT32
41726	1725	Q MAX [VAR] LSW			RW	
41727	1726	S AVG [VA] MSW	3PH	Average Apparent Power calculated over the configured average time [VA]	RO	FLOAT32
41728	1727	S AVG [VA] LSW			RO	
41729	1728	S AVG MIN [VA] MSW	3PH	Minimum Apparent Power calculated over the configured average time [VA]	RW	FLOAT32
41730	1729	S AVG MIN [VA] LSW			RW	
41731	1730	S AVG MAX [VA] MSW	3PH	Maximum Apparent Power calculated over the configured average time [VA]	RW	FLOAT32
41732	1731	S AVG MAX [VA] LSW			RW	
41733	1732	S MIN [VA] MSW	3PH	Minimum Apparent Power since device power up [VA]	RW	FLOAT32
41734	1733	S MIN [VA] LSW			RW	
41735	1734	S MAX [VA] MSW	3PH	Maximum Apparent Power since device power up [VA]	RW	FLOAT32
41736	1735	S MAX [VA] LSW			RW	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41737	1736	PF AVG MSW	3PH	Average Power Factor calculated over the configured average time	RO	FLOAT32
41738	1737	PF AVG LSW			RO	
41739	1738	PF AVG MIN MSW	3PH	Minimum Power Factor calculated over the configured average time	RW	FLOAT32
41740	1739	PF AVG MIN LSW			RW	
41741	1740	PF AVG MAX MSW	3PH	Maximum Power Factor calculated over the configured average time	RW	FLOAT32
41742	1741	PF AVG MAX LSW			RW	
41743	1742	PF MIN MSW	3PH	Minimum Power Factor since device power up	RW	FLOAT32
41744	1743	PF MIN LSW			RW	
41745	1744	PF MAX MSW	3PH	Maximum Power Factor since device power up	RW	FLOAT32
41746	1745	PF MAX LSW			RW	
41747	1746	E ACTIVE ENERGY (+) [Wh] MMSW	L1	Active Energy (Only +) Q1-Q4 [Wh]	RW	UNSIGNED64
41748	1747	E ACTIVE ENERGY (+) [Wh] MSW			RW	
41749	1748	E ACTIVE ENERGY (+) [Wh] LSW			RW	
41750	1749	E ACTIVE ENERGY (+) [Wh] LLSW			RW	
41751	1750	E ACTIVE ENERGY (+) [Wh] MMSW	L2	Active Energy (Only +) Q1-Q4 [Wh]	RW	UNSIGNED64
41752	1751	E ACTIVE ENERGY (+) [Wh] MSW			RW	
41753	1752	E ACTIVE ENERGY (+) [Wh] LSW			RW	
41754	1753	E ACTIVE ENERGY (+) [Wh] LLSW			RW	
41755	1754	E ACTIVE ENERGY (+) [Wh] MMSW	L3	Active Energy (Only +) Q1-Q4 [Wh]	RW	UNSIGNED64
41756	1755	E ACTIVE ENERGY (+) [Wh] MSW			RW	
41757	1756	E ACTIVE ENERGY (+) [Wh] LSW			RW	
41758	1757	E ACTIVE ENERGY (+) [Wh] LLSW			RW	
41759	1758	E ACTIVE ENERGY (-) [Wh] MMSW	L1	Active Energy (Only -) Q2-Q3 [Wh]	RW	UNSIGNED64
41760	1759	E ACTIVE ENERGY (-) [Wh] MSW			RW	
41761	1760	E ACTIVE ENERGY (-) [Wh] LSW			RW	
41762	1761	E ACTIVE ENERGY (-) [Wh] LLSW	L2	Active Energy (Only -) Q2-Q3 [Wh]	RW	UNSIGNED64
41763	1762	E ACTIVE ENERGY (-) [Wh] MMSW			RW	
41764	1763	E ACTIVE ENERGY (-) [Wh] MSW			RW	
41765	1764	E ACTIVE ENERGY (-) [Wh] LSW			RW	



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41766	1765	E ACTIVE ENERGY (-) [Wh] LLSW			RW	
41767	1766	E ACTIVE ENERGY (-) [Wh] MMSW	L3	Active Energy (Only -) Q2-Q3 [Wh]	RW	UNSIGNED64
41768	1767	E ACTIVE ENERGY (-) [Wh] MSW			RW	
41769	1768	E ACTIVE ENERGY (-) [Wh] LSW			RW	
41770	1769	E ACTIVE ENERGY (-) [Wh] LLSW			RW	
41771	1770	E REACTIVE ENERGY (+) [VARh] MMSW	L1	Reactive Energy (Only +) Q1-Q2 [VARh]	RW	UNSIGNED64
41772	1771	E REACTIVE ENERGY (+) [VARh] MSW			RW	
41773	1772	E REACTIVE ENERGY (+) [VARh] LSW			RW	
41774	1773	E REACTIVE ENERGY (+) [VARh] LLSW			RW	
41775	1774	E REACTIVE ENERGY (+) [VARh] MMSW	L2	Reactive Energy (Only +) Q1-Q2 [VARh]	RW	UNSIGNED64
41776	1775	E REACTIVE ENERGY (+) [VARh] MSW			RW	
41777	1776	E REACTIVE ENERGY (+) [VARh] LSW			RW	
41778	1777	E REACTIVE ENERGY (+) [VARh] LLSW			RW	
41779	1778	E REACTIVE ENERGY (+) [VARh] MMSW	L3	Reactive Energy (Only +) Q1-Q2 [VARh]	RW	UNSIGNED64
41780	1779	E REACTIVE ENERGY (+) [VARh] MSW			RW	
41781	1780	E REACTIVE ENERGY (+) [VARh] LSW			RW	
41782	1781	E REACTIVE ENERGY (+) [VARh] LLSW			RW	
41783	1782	E REACTIVE ENERGY (-) [VARh] MMSW	L1	Reactive Energy (Only -) Q3-Q4 [VARh]	RW	UNSIGNED64
41784	1783	E REACTIVE ENERGY (-) [VARh] MSW			RW	
41785	1784	E REACTIVE ENERGY (-) [VARh] LSW			RW	
41786	1785	E REACTIVE ENERGY (-) [VARh] LLSW			RW	
41787	1786	E REACTIVE ENERGY (-) [VARh] MMSW	L2	Reactive Energy (Only -) Q3-Q4 [VARh]	RW	UNSIGNED64
41788	1787	E REACTIVE ENERGY (-) [VARh] MSW			RW	
41789	1788	E REACTIVE ENERGY (-) [VARh] LSW			RW	
41790	1789	E REACTIVE ENERGY (-) [VARh] LLSW			RW	
41791	1790	E REACTIVE ENERGY (-) [VARh] MMSW	L3	Reactive Energy (Only -) Q3-Q4 [VARh]	RW	UNSIGNED64

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41792	1791	E REACTIVE ENERGY (-) [VARh] MSW			RW	
41793	1792	E REACTIVE ENERGY (-) [VARh] LSW			RW	
41794	1793	E REACTIVE ENERGY (-) [VARh] LLSW			RW	
41795	1794	E REACTIVE ENERGY (+) ASSORBITA [VARh] MMSW	L1	Reactive Energy (Only +) Q1 [VARh]	RW	UNSIGNED64
41796	1795	E REACTIVE ENERGY (+) ASSORBITA [VARh] MSW			RW	
41797	1796	E REACTIVE ENERGY (+) ASSORBITA [VARh] LSW			RW	
41798	1797	E REACTIVE ENERGY (+) ASSORBITA [VARh] LLSW			RW	
41799	1798	E REACTIVE ENERGY (+) ASSORBITA [VARh] MMSW	L2	Reactive Energy (Only +) Q1 [VARh]	RW	UNSIGNED64
41800	1799	E REACTIVE ENERGY (+) ASSORBITA [VARh] MSW			RW	
41801	1800	E REACTIVE ENERGY (+) ASSORBITA [VARh] LSW			RW	
41802	1801	E REACTIVE ENERGY (+) ASSORBITA [VARh] LLSW			RW	
41803	1802	E REACTIVE ENERGY (+) ASSORBITA [VARh] MMSW	L3	Reactive Energy (Only +) Q1 [VARh]	RW	UNSIGNED64
41804	1803	E REACTIVE ENERGY (+) ASSORBITA [VARh] MSW			RW	
41805	1804	E REACTIVE ENERGY (+) ASSORBITA [VARh] LSW			RW	
41806	1805	E REACTIVE ENERGY (+) ASSORBITA [VARh] LLSW			RW	
41807	1806	E REACTIVE ENERGY (+) EROGATA [VARh] MMSW	L1	Reactive Energy (Only +) Q3 [VARh]	RW	UNSIGNED64
41808	1807	E REACTIVE ENERGY (+) EROGATA [VARh] MSW			RW	
41809	1808	E REACTIVE ENERGY (+) EROGATA [VARh] LSW			RW	
41810	1809	E REACTIVE ENERGY (+) EROGATA [VARh] LLSW			RW	
41811	1810	E REACTIVE ENERGY (+) EROGATA [VARh] MMSW	L2	Reactive Energy (Only +) Q3 [VARh]	RW	UNSIGNED64
41812	1811	E REACTIVE ENERGY (+) EROGATA [VARh] MSW			RW	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
<b>41813</b>	1812	E REACTIVE ENERGY (+) EROGATA [VARh] LSW			RW	
<b>41814</b>	1813	E REACTIVE ENERGY (+) EROGATA [VARh] LLSW			RW	
<b>41815</b>	1814	E REACTIVE ENERGY (+) EROGATA [VARh] MMSW	L3	Reactive Energy (Only +) Q3 [VARh]	RW	UNSIGNED64
<b>41816</b>	1815	E REACTIVE ENERGY (+) EROGATA [VARh] MSW			RW	
<b>41817</b>	1816	E REACTIVE ENERGY (+) EROGATA [VARh] LSW			RW	
<b>41818</b>	1817	E REACTIVE ENERGY (+) EROGATA [VARh] LLSW			RW	
<b>41819</b>	1818	E REACTIVE ENERGY (-) ASSORBITA [VARh] MMSW	L1	Reactive Energy (Only -) Q2 [VARh]	RW	UNSIGNED64
<b>41820</b>	1819	E REACTIVE ENERGY (-) ASSORBITA [VARh] MSW			RW	
<b>41821</b>	1820	E REACTIVE ENERGY (-) ASSORBITA [VARh] LSW			RW	
<b>41822</b>	1821	E REACTIVE ENERGY (-) ASSORBITA [VARh] LLSW			RW	
<b>41823</b>	1822	E REACTIVE ENERGY (-) ASSORBITA [VARh] MMSW	L2	Reactive Energy (Only -) Q2 [VARh]	RW	UNSIGNED64
<b>41824</b>	1823	E REACTIVE ENERGY (-) ASSORBITA [VARh] MSW			RW	
<b>41825</b>	1824	E REACTIVE ENERGY (-) ASSORBITA [VARh] LSW			RW	
<b>41826</b>	1825	E REACTIVE ENERGY (-) ASSORBITA [VARh] LLSW			RW	
<b>41827</b>	1826	E REACTIVE ENERGY (-) ASSORBITA [VARh] MMSW	L3	Reactive Energy (Only -) Q2 [VARh]	RW	UNSIGNED64
<b>41828</b>	1827	E REACTIVE ENERGY (-) ASSORBITA [VARh] MSW			RW	
<b>41829</b>	1828	E REACTIVE ENERGY (-) ASSORBITA [VARh] LSW			RW	
<b>41830</b>	1829	E REACTIVE ENERGY (-) ASSORBITA [VARh] LLSW			RW	
<b>41831</b>	1830	E REACTIVE ENERGY (-) EROGATA [VARh] MMSW	L1	Reactive Energy (Only -) Q4 [VARh]	RW	UNSIGNED64
<b>41832</b>	1831	E REACTIVE ENERGY (-) EROGATA [VARh] MSW			RW	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41833	1832	E REACTIVE ENERGY (-) EROGATA [VARh] LSW			RW	
41834	1833	E REACTIVE ENERGY (-) EROGATA [VARh] LLSW			RW	
41835	1834	E REACTIVE ENERGY (-) EROGATA [VARh] MMSW	L2	Reactive Energy (Only -) Q4 [VARh]	RW	UNSIGNED64
41836	1835	E REACTIVE ENERGY (-) EROGATA [VARh] MSW			RW	
41837	1836	E REACTIVE ENERGY (-) EROGATA [VARh] LSW			RW	
41838	1837	E REACTIVE ENERGY (-) EROGATA [VARh] LLSW			RW	
41839	1838	E REACTIVE ENERGY (-) EROGATA [VARh] MMSW	L3	Reactive Energy (Only -) Q4 [VARh]	RW	UNSIGNED64
41840	1839	E REACTIVE ENERGY (-) EROGATA [VARh] MSW			RW	
41841	1840	E REACTIVE ENERGY (-) EROGATA [VARh] LSW			RW	
41842	1841	E REACTIVE ENERGY (-) EROGATA [VARh] LLSW			RW	
41843	1842	E ACTIVE ENERGY [Wh] MMSW	L1	Total Active Energy [Wh]	RW	UNSIGNED64
41844	1843	E ACTIVE ENERGY [Wh] MSW			RW	
41845	1844	E ACTIVE ENERGY [Wh] LSW			RW	
41846	1845	E ACTIVE ENERGY [Wh] LLSW			RW	
41847	1846	E ACTIVE ENERGY [Wh] MMSW	L2	Total Active Energy [Wh]	RW	SIGNED64
41848	1847	E ACTIVE ENERGY [Wh] MSW			RW	
41849	1848	E ACTIVE ENERGY [Wh] LSW			RW	
41850	1849	E ACTIVE ENERGY [Wh] LLSW			RW	
41851	1850	E ACTIVE ENERGY [Wh] MMSW	L3	Total Active Energy [Wh]	RW	SIGNED64
41852	1851	E ACTIVE ENERGY [Wh] MSW			RW	
41853	1852	E ACTIVE ENERGY [Wh] LSW			RW	
41854	1853	E ACTIVE ENERGY [Wh] LLSW			RW	
41855	1854	E REACTIVE ENERGY [VARh] MMSW	L1	Total Reactive Energy [VARh]	RW	SIGNED64
41856	1855	E REACTIVE ENERGY [VARh] MSW			RW	
41857	1856	E REACTIVE ENERGY [VARh] LSW			RW	
41858	1857	E REACTIVE ENERGY [VARh] LLSW			RW	
41859	1858	E REACTIVE ENERGY [VARh] MMSW	L2	Total Reactive Energy [VARh]	RW	SIGNED64

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41860	1859	E REACTIVE ENERGY [VARh] MSW			RW	
41861	1860	E REACTIVE ENERGY [VARh] LSW			RW	
41862	1861	E REACTIVE ENERGY [VARh] LLSW			RW	
41863	1862	E REACTIVE ENERGY [VARh] MMSW	L3	Total Reactive Energy [VARh]	RW	SIGNED64
41864	1863	E REACTIVE ENERGY [VARh] MSW			RW	
41865	1864	E REACTIVE ENERGY [VARh] LSW			RW	
41866	1865	E REACTIVE ENERGY [VARh] LLSW			RW	
41867	1866	E REACTIVE ENERGY [VARh] MMSW	L1	Total Apparent Energy [VAh]	RW	SIGNED64
41868	1867	E REACTIVE ENERGY [VARh] MSW			RW	
41869	1868	E REACTIVE ENERGY [VARh] LSW			RW	
41870	1869	E REACTIVE ENERGY [VARh] LLSW			RW	
41871	1870	E REACTIVE ENERGY [VARh] MMSW	L2	Total Apparent Energy [VAh]	RW	SIGNED64
41872	1871	E REACTIVE ENERGY [VARh] MSW			RW	
41873	1872	E REACTIVE ENERGY [VARh] LSW			RW	
41874	1873	E REACTIVE ENERGY [VARh] LLSW			RW	
41875	1874	E REACTIVE ENERGY [VARh] MMSW	L3	Total Apparent Energy [VAh]	RW	SIGNED64
41876	1875	E REACTIVE ENERGY [VARh] MSW			RW	
41877	1876	E REACTIVE ENERGY [VARh] LSW			RW	
41878	1877	E REACTIVE ENERGY [VARh] LLSW			RW	
41879	1878	E ACTIVE ENERGY (+) [Wh] MMSW	3PH	Active Energy (Only +) Q1-Q4 [Wh]	RW	UNSIGNED64
41880	1879	E ACTIVE ENERGY (+) [Wh] MSW			RW	
41881	1880	E ACTIVE ENERGY (+) [Wh] LSW			RW	
41882	1881	E ACTIVE ENERGY (+) [Wh] LLSW			RW	
41883	1882	E ACTIVE ENERGY (-) [Wh] MMSW	3PH	Active Energy (Only -) Q2-Q3 [Wh]	RW	UNSIGNED64
41884	1883	E ACTIVE ENERGY (-) [Wh] MSW			RW	
41885	1884	E ACTIVE ENERGY (-) [Wh] LSW			RW	

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41886	1885	E ACTIVE ENERGY (-) [Wh] LLSW			RW	
41887	1886	E REACTIVE ENERGY (+) [VARh] MMSW	3PH	Reactive Energy (Only +) Q1-Q2 [Wh]	RW	UNSIGNED64
41888	1887	E REACTIVE ENERGY (+) [VARh] MSW			RW	
41889	1888	E REACTIVE ENERGY (+) [VARh] LSW			RW	
41890	1889	E REACTIVE ENERGY (+) [VARh] LLSW			RW	
41891	1890	E REACTIVE ENERGY (-) [VARh] MMSW	3PH	Reactive Energy (Only -) Q3-Q4 [Wh]	RW	UNSIGNED64
41892	1891	E REACTIVE ENERGY (-) [VARh] MSW			RW	
41893	1892	E REACTIVE ENERGY (-) [VARh] LSW			RW	
41894	1893	E REACTIVE ENERGY (-) [VARh] LLSW			RW	
41895	1894	E ACTIVE ENERGY [Wh] MMSW	3PH	Total Active Energy [Wh]	RW	SIGNED64
41896	1895	E ACTIVE ENERGY [Wh] MSW			RW	
41897	1896	E ACTIVE ENERGY [Wh] LSW			RW	
41898	1897	E ACTIVE ENERGY [Wh] LLSW			RW	
41899	1898	E REACTIVE ENERGY [VARh] MMSW	3PH	Total Reactive Energy [Varh]	RW	SIGNED64
41900	1899	E REACTIVE ENERGY [VARh] MSW			RW	
41901	1900	E REACTIVE ENERGY [VARh] LSW			RW	
41902	1901	E REACTIVE ENERGY [VARh] LLSW			RW	
41903	1902	E APPARENT ENERGY [VAh] MMSW	3PH	Total Apparent Energy [VAh]	RW	SIGNED64
41904	1903	E APPARENT ENERGY [VAh] MSW			RW	
41905	1904	E APPARENT ENERGY [VAh] LSW			RW	
41906	1905	E APPARENT ENERGY [VAh] LLSW			RW	
41907	1906	E REACTIVE ENERGY (+) ASSORBITA [VARh] MMSW	3PH	Total Absorbed Reactive Energy (+) [Wh]	RW	UNSIGNED64
41908	1907	E REACTIVE ENERGY (+) ASSORBITA [VARh] MSW			RW	
41909	1908	E REACTIVE ENERGY (+) ASSORBITA [VARh] LSW			RW	
41910	1909	E REACTIVE ENERGY (+) ASSORBITA [VARh] LLSW			RW	
41911	1910	E REACTIVE ENERGY (-) ASSORBITA [VARh] MMSW	3PH		RW	UNSIGNED64

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41912	1911	E REACTIVE ENERGY (-) ASSORBITA [VARh] MSW		Total Absorbed Reactive Energy (-) [Wh]	RW	
41913	1912	E REACTIVE ENERGY (-) ASSORBITA [VARh] LSW			RW	
41914	1913	E REACTIVE ENERGY (-) ASSORBITA [VARh] LLSW			RW	
41915	1914	E REACTIVE ENERGY (+) EROGATA [VARh] MMSW	3PH	Total Delivered Reactive Energy (+) [Wh]	RW	UNSIGNED64
41916	1915	E REACTIVE ENERGY (+) EROGATA [VARh] MSW			RW	
41917	1916	E REACTIVE ENERGY (+) EROGATA [VARh] LSW			RW	
41918	1917	E REACTIVE ENERGY (+) EROGATA [VARh] LLSW			RW	
41919	1918	E REACTIVE ENERGY (-) EROGATA [VARh] MMSW	3PH	Total Delivered Reactive Energy (-) [Wh]	RW	UNSIGNED64
41920	1919	E REACTIVE ENERGY (-) EROGATA [VARh] MSW			RW	
41921	1920	E REACTIVE ENERGY (-) EROGATA [VARh] LSW			RW	
41922	1921	E REACTIVE ENERGY (-) EROGATA [VARh] LLSW			RW	
41923	1922	THD I AVG MSW	L1	Average Current THD calculated over the configured average time	RO	FLOAT32
41924	1923	THD I AVG LSW			RO	
41925	1924	THD I AVG MIN MSW	L1	Minimum Current THD calculated over the configured average time	RW	FLOAT32
41926	1925	THD I AVG MIN LSW			RW	
41927	1926	THD I AVG MAX MSW	L1	Maximum Current THD calculated over the configured average time	RW	FLOAT32
41928	1927	THD I AVG MAX LSW			RW	
41929	1928	THD I MIN MSW	L1	Minimum Current THD since device power up	RW	FLOAT32
41930	1929	THD I MIN LSW			RW	
41931	1930	THD I MAX MSW	L1	Maximum Current THD since device power up	RW	FLOAT32
41932	1931	THD I MAX LSW			RW	
41933	1932	THD I AVG MSW	L2	Average Current THD calculated over the configured average time	RO	FLOAT32
41934	1933	THD I AVG LSW			RO	
41935	1934	THD I AVG MIN MSW	L2		RW	FLOAT32

ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41936	1935	THD I AVG MIN LSW		Minimum Current THD calculated over the configured average time	RW	
41937	1936	THD I AVG MAX MSW	L2	Maximum Current THD calculated over the configured average time	RW	FLOAT32
41938	1937	THD I AVG MAX LSW			RW	
41939	1938	THD I MIN MSW	L2	Minimum Current THD since device power up	RW	FLOAT32
41940	1939	THD I MIN LSW			RW	
41941	1940	THD I MAX MSW	L2	Maximum Current THD since device power up	RW	FLOAT32
41942	1941	THD I MAX LSW			RW	
41943	1942	THD I AVG MSW	L3	Average Current THD calculated over the configured average time	RO	FLOAT32
41944	1943	THD I AVG LSW			RO	
41945	1944	THD I AVG MIN MSW	L3	Minimum Current THD calculated over the configured average time	RW	FLOAT32
41946	1945	THD I AVG MIN LSW			RW	
41947	1946	THD I AVG MAX MSW	L3	Maximum Current THD calculated over the configured average time	RW	FLOAT32
41948	1947	THD I AVG MAX LSW			RW	
41949	1948	THD I MIN MSW	L3	Minimum Current THD since device power up	RW	FLOAT32
41950	1949	THD I MIN LSW			RW	
41951	1950	THD I MAX MSW	L3	Maximum Current THD since device power up	RW	FLOAT32
41952	1951	THD I MAX LSW			RW	
41953	1952	THD I AVG MSW	L1	Average Voltage THD calculated over the configured average time	RO	FLOAT32
41954	1953	THD V AVG LSW			RO	
41955	1954	THD V AVG MIN MSW	L1	Minimum Voltage THD calculated over the configured average time	RW	FLOAT32
41956	1955	THD V AVG MIN LSW			RW	
41957	1956	THD V AVG MAX MSW	L1	Maximum Voltage THD calculated over the configured average time	RW	FLOAT32
41958	1957	THD V AVG MAX LSW			RW	
41959	1958	THD V MIN MSW	L1	Minimum Voltage THD since device power up	RW	FLOAT32
41960	1959	THD V MIN LSW			RW	
41961	1960	THD V MAX MSW	L1	Maximum Voltage THD since device power up	RW	FLOAT32
41962	1961	THD V MAX LSW			RW	
41963	1962	THD I AVG MSW	L2		RO	FLOAT32



ADDRESS (4x)	ADDRESS OFFSET	REGISTER	PHASE	DESCRIPTION	W/R	TYPE
41964	1963	THD V AVG LSW		Average Voltage THD calculated over the configured average time	RO	
41965	1964	THD V AVG MIN MSW	L2	Minimum Voltage THD calculated over the configured average time	RW	FLOAT32
41966	1965	THD V AVG MIN LSW			RW	
41967	1966	THD V AVG MAX MSW	L2	Maximum Voltage THD calculated over the configured average time	RW	FLOAT32
41968	1967	THD V AVG MAX LSW			RW	
41969	1968	THD V MIN MSW	L2	Minimum Voltage THD since device power up	RW	FLOAT32
41970	1969	THD V MIN LSW			RW	
41971	1970	THD V MAX MSW	L2	Maximum Voltage THD since device power up	RW	FLOAT32
41972	1971	THD V MAX LSW			RW	
41973	1972	THD I AVG MSW	L3	Average Voltage THD calculated over the configured average time	RO	FLOAT32
41974	1973	THD V AVG LSW			RO	
41975	1974	THD V AVG MIN MSW	L3	Minimum Voltage THD calculated over the configured average time	RW	FLOAT32
41976	1975	THD V AVG MIN LSW			RW	
41977	1976	THD V AVG MAX MSW	L3	Maximum Voltage THD calculated over the configured average time	RW	FLOAT32
41978	1977	THD V AVG MAX LSW			RW	
41979	1978	THD V MIN MSW	L3	Minimum Voltage THD since device power up	RW	FLOAT32
41980	1979	THD V MIN LSW			RW	
41981	1980	THD V MAX MSW	L3	Maximum Voltage THD since device power up	RW	FLOAT32
41982	1981	THD V MAX LSW			RW	
41995	1994	Vsys [V] MSW	3PH	Tensione di sistema (VL1+VL2+VL3)/3	RW	FLOAT32
41996	1995	Vsys [V] LSW			RW	
41997	1996	Isys [A] MSW	3PH	Corrente di sistema (IL1+IL2+IL3)	RW	FLOAT32
41998	1997	Isys [A] LSW			RW	
42019	2018	COUNTER 1 MSW	-	Contatore ingresso digitale 1	RW	UNSIGNED INT 32
42020	2019	COUNTER 1 LSW			RW	
42021	2020	COUNTER 2 MSW	-	Contatore ingresso digitale 2	RW	UNSIGNED INT 32
42022	2021	COUNTER 2 LSW			RW	