MODBUS REGISTER MAP

EMT130 · EMT132

Three-phase power analyzers · 1 DIN module

English · Revision 0

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1 INTRODUCTION

This document lists the Modbus registers of the EMT130, EMT132 analyzers, accessible via Modbus RTU on the RS485 port and via Modbus TCP on Wi-Fi. The map is common to all models of the family and is generated from the reference sheet also used to generate the firmware.

1.1 BASE and FULL versions

The Ver. column shows the registers available in all versions (All) and those of the FULL version only (harmonic analysis, power quality, waveforms, logging and MQTT).

1.2 Register series

Series of values of the same type (for example the 64 harmonic amplitudes of a phase or the 128 samples of a waveform) are given in a single row, with the first and last register of the series: element n is located at the start register plus n times the number of registers of the type.

1.3 Read and write roles

The Read and Write columns show the minimum access level required via Modbus: ALWAYS = always, NEVER = never, WITH PASS = only after unlocking with the indicated password.

2 DATA TYPES

Registers are given with the classic Modbus holding register numbering (40001 onwards). In the Modbus request the address to be sent is the register number minus 40001 (for example register 40001 corresponds to address 0).

Data types		
Type	**Registers**	**Values**
char	1	-128 … 255
signed short	1	-32768 … 32767
unsigned short	1	0 … 65535
signed long	2	-2147483648 … 2147483647
unsigned long	2	0 … 4294967295
float	2	-3.4028235e+38 … 3.4028235e+38
signed long long	4	-9.223372e+18 … 9.223372e+18
unsigned long long	4	0 … 1.8446744e+19
double	4	-1.7976931348623157e+308 … 1.7976931348623157e+308

3 REGISTER MAP

3.1 Device information

Device information								
Register	**Type**	**Name**	**Description**	**Default**	**Read**	**Write**	**Min – Max**	**Ver.**
40001 – 40008	char × 8	**machine_id_1 … machine_id_8**	Machine ID, set by Chronos. 1 char per register … Machine ID, set by Chronos. 1 char per register		ALWAYS	WITH PASS C	0 – 255	All
40009	unsigned short	**hw_version**	Hardware version, set by Chronos.	1	ALWAYS	WITH PASS C	0 – 65535	All
40010	unsigned short	**fw_version**	Firmware version, set by Chronos.	1	ALWAYS	WITH PASS C	0 – 65535	All
40011	unsigned short	**mounted_version**	0 -> 5A 1 -> Rogowski, 333 mV	0	ALWAYS	WITH PASS C	0 – 1	All
40012	unsigned short	**year_month**	calibration year and month	6153	ALWAYS	WITH PASS C	0 – 65535	All
40013	unsigned short	**day_Hour**	calibration day and hour	6671	ALWAYS	WITH PASS C	0 – 65535	All
40014	unsigned short	**minute_second**	calibration minute and second	9517	ALWAYS	WITH PASS C	0 – 65535	All
40015	unsigned short	**feature_version**	0 -> Base version 1 -> Full version	0	NEVER	WITH PASS C	0 – 65535	All
40016	unsigned short	**Mac_address_Wifi_STA_1**	Mac address Wifi Station MSB	11	ALWAYS	WITH PASS C	0 – 65535	All
40017	unsigned short	**Mac_address_Wifi_STA_2**	Mac address Wifi Station	22	ALWAYS	WITH PASS C	0 – 65535	All
40018	unsigned short	**Mac_address_Wifi_STA_3**	Mac address Wifi Station	33	ALWAYS	WITH PASS C	0 – 65535	All
40019	unsigned short	**Mac_address_Wifi_STA_4**	Mac address Wifi Station	44	ALWAYS	WITH PASS C	0 – 65535	All
40020	unsigned short	**Mac_address_Wifi_STA_5**	Mac address Wifi Station	55	ALWAYS	WITH PASS C	0 – 65535	All
40021	unsigned short	**Mac_address_Wifi_STA_6**	Mac address Wifi Station LSB	66	ALWAYS	WITH PASS C	0 – 65535	All
40022	unsigned short	**Mac_address_Wifi_SOFT_AP_1**	Mac address Wifi software enabled access point MSB	11	ALWAYS	WITH PASS C	0 – 65535	All
40023	unsigned short	**Mac_address_Wifi_SOFT_AP_2**	Mac address Wifi software enabled access point	22	ALWAYS	WITH PASS C	0 – 65535	All
40024	unsigned short	**Mac_address_Wifi_SOFT_AP_3**	Mac address Wifi software enabled access point	33	ALWAYS	WITH PASS C	0 – 65535	All
40025	unsigned short	**Mac_address_Wifi_SOFT_AP_4**	Mac address Wifi software enabled access point	44	ALWAYS	WITH PASS C	0 – 65535	All
40026	unsigned short	**Mac_address_Wifi_SOFT_AP_5**	Mac address Wifi software enabled access point	55	ALWAYS	WITH PASS C	0 – 65535	All
40027	unsigned short	**Mac_address_Wifi_SOFT_AP_6**	Mac address Wifi software enabled access point LSB	66	ALWAYS	WITH PASS C	0 – 65535	All
40028	unsigned short	**Mac_address_Ethernet_1**	Mac address Ethernet MSB	31	ALWAYS	WITH PASS C	0 – 65535	All

40029	unsigned short	**Mac_address_Ethernet_2**	Mac address Ethernet	32	ALWAYS	WITH PASS C	0 – 65535	All
40030	unsigned short	**Mac_address_Ethernet_3**	Mac address Ethernet	33	ALWAYS	WITH PASS C	0 – 65535	All
40031	unsigned short	**Mac_address_Ethernet_4**	Mac address Ethernet	34	ALWAYS	WITH PASS C	0 – 65535	All
40032	unsigned short	**Mac_address_Ethernet_5**	Mac address Ethernet	35	ALWAYS	WITH PASS C	0 – 65535	All
40033	unsigned short	**Mac_address_Ethernet_6**	Mac address Ethernet LSB	36	ALWAYS	WITH PASS C	0 – 65535	All
40034	unsigned short	**Mac_address_Bluetooth_1**	Mac address Bluetooth MSB	96	ALWAYS	WITH PASS C	0 – 65535	All
40035	unsigned short	**Mac_address_Bluetooth_2**	Mac address Bluetooth	95	ALWAYS	WITH PASS C	0 – 65535	All
40036	unsigned short	**Mac_address_Bluetooth_3**	Mac address Bluetooth	94	ALWAYS	WITH PASS C	0 – 65535	All
40037	unsigned short	**Mac_address_Bluetooth_4**	Mac address Bluetooth	93	ALWAYS	WITH PASS C	0 – 65535	All
40038	unsigned short	**Mac_address_Bluetooth_5**	Mac address Bluetooth	92	ALWAYS	WITH PASS C	0 – 65535	All
40039	unsigned short	**Mac_address_Bluetooth_6**	Mac address Bluetooth LSB	91	ALWAYS	WITH PASS C	0 – 65535	All
40041	unsigned short	**plugin_board**	0: no plugin 1: Digital input plugin 2: Lora plugin	0	ALWAYS	WITH PASS C	0 – 65535	All

3.2 Settings

Settings								
Register	**Type**	**Name**	**Description**	**Default**	**Read**	**Write**	**Min – Max**	**Ver.**
40227	unsigned short	**modbus_RTU_address**	Modbus address	1	ALWAYS	ALWAYS	0 – 65535	All
40228	unsigned short	**modbus_RTU_delay**	Delay Modbus answer (in ms)	0	ALWAYS	ALWAYS	0 – 65535	All
40229	unsigned short	**modbus_RTU_baudrate**	Baudrate 0 → 1200 1 → 2400 2 → 4800 3 → 9600 4 → 19200 5 → 38400 6 → 57600 7 → 115200	3	ALWAYS	ALWAYS	0 – 65535	All
40230	unsigned short	**modbus_RTU_parity**	0 → NONE 1 → EVEN 2 → ODD	0	ALWAYS	ALWAYS	0 – 65535	All
40231	unsigned short	**modbus_RTU_Stop_bit**	0 → 1 Bit 1 → 1,5 Bit 2 → 2 Bit	0	ALWAYS	ALWAYS	0 – 65535	All

40232	unsigned short	**Measurement_Configuration_Register**	Bit 0: Don't care Bit 1..2: Connection 0 → Single phase 1 → Three phase: 3 wires, 2 TA (Aron) 2 → Three phase: 3 wires, 3 TA 3 → Three phase: 4 wires, 3 TA (with neutral) Bit 3: FFT representation 0 → Absolute 1 → Relative to the I_1 value Bit 4: HPF filter 0 → Enabled 1 → Disabled Bit 5: Reactive power calculation method 0 → Triangle method 1 → Budeanu Bit 6: Digital output behaviour 0 → Alarm 1 → Pulsed output for KWh Bit 7: Frequency detection Channel 0 → Voltage 1 → Current Bit 9: Energy saving 0 → Disabled 1 → Enabled Bit 10..11: Output switch condition 0 → Normally Opened condition 1 → Normally Closed condition 2 → Within Threshold 3 → Outside Threshold Bit 13: Integrator condition 0 → Integrator disabled 1 → Integrator enabled (Rogowski input) Bit 15: Filtered measurement 0 → Filtering disabled 1 → Filtering enabled	518	ALWAYS	ALWAYS	0 – 65535	All

40233	unsigned short	**Machine_Configuration_Register**	Bit 0: Not Used 0 → Disabled 1 → Enabled Bit 1: Buzzer in touch pad 0 → Disabled 1 → Enabled Bit 2: Buzzer during alarm condition 0 → Disabled 1 → Enabled Bit 3: Wifi STA 0 → Disabled 1 → Enabled Bit 4: Wifi AP 0 → Disabled 1 → Enabled Bit 5: MQTT 0 → Disabled 1 → Enabled	27	ALWAYS	ALWAYS	0 – 65535	All
40234	unsigned short	**TA_Chronos_register**	0 → Let user choose what Ratio and delay to choose 1 → Assigned to Chronos 100/5 2 → Assigned to …	0	ALWAYS	ALWAYS	0 – 65535	FULL
40235	float	**TA_Transducer_ratio**	If Input 1A/5A, 20mA/100 mA → Current transformer ratio M/N - Default 1.0 (Ex: 600:5 → transducer_ratio = 120) If Input Rogowski → Sensitivity [V/A]	1	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40237	float	**TA_Transducer_delay**	Current transformer delay in [°] @ 50 Hz for accurate power calculation	0	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40239	float	**TV_Transducer_ratio**	Voltage transformer ratio M/N - Default 1.0 (Ex: 1000:100 → transducer_ratio = 10)	1	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40241	float	**TV_Transducer_delay**	Voltage transformer delay in [°] @ 50 Hz for accurate power calculation	0	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40243	float	**minimum_voltage_ripple**	Minimum threshold under which the instrument reads 0 independent from the input value	0	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40245	float	**minimum_current_ripple**	Minimum threshold under which the instrument reads 0 independent from the input value	0	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All

40247	float	**minimum_power_ripple**	Minimum threshold under which the instrument reads 0 independent from the input value (P, Q, and S)	0	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40249	unsigned short	**DC_Filter**	Update rate when no Zero crossing is detected [tenth of second]; lower => faster; higher => more accurate	10	ALWAYS	ALWAYS	0 – 65535	All
40250	unsigned short	**AC_Filter**	Update rate when Zero crossing is detected [number of periods]; lower => faster; higher => more accurate	50	ALWAYS	ALWAYS	0 – 65535	All
40251	unsigned short	**minute_for_Max_and_AVG_demand**	Minute for Max demand and Average power calculation (0..45)	15	ALWAYS	ALWAYS	0 – 45	All
40253	unsigned short	**seconds_for_mean_RMS**	Register in seconds (0..60) for RMS average	15	ALWAYS	ALWAYS	0 – 60	All
40254	unsigned short	**seconds_for_MAX_RMS**	Seconds 1..60 for MAX RMS value. If the register is 0, then the absolute MAX RMS is given	15	ALWAYS	ALWAYS	0 – 60	All
40255	unsigned short	**seconds_for_min_RMS**	Seconds 1..60 for min RMS value. If the register is 0, then the absolute min RMS is given	15	ALWAYS	ALWAYS	0 – 60	All
40256	unsigned short	**Energy_unit_factor**	Variable for changing Energy measurement unit: 0 -> [Wh/10] 1 -> [Wh] .. 4 -> [KWh] 7 -> [MWh] 10 -> [GWh]	4	ALWAYS	ALWAYS	0 – 65535	All
40258	unsigned short	**MQTT_broker**	0 -> Chronos Broker 1 -> Custom Broker	0	ALWAYS	ALWAYS	0 – 65535	All
40259	float	**Voltage_unbalance_setpoint**	Setpoint for Voltage Unbalance Alarm	0	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	FULL
40261	unsigned short	**MQTT_port**	porta broker MQTT	8883	ALWAYS	ALWAYS	0 – 65535	All
40271	unsigned short	**Alarm_Register_start_address**	DIGITAL OUTPUT 1: Modbus address address for alarm (starting from the modbus address of V_L1_N, V_L2_N, V_L3_N, ecc)	40000	ALWAYS	ALWAYS	0 – 65535	All
40272	unsigned short	**Alarm_delay**	DIGITAL OUTPUT 1: Delay in ms for Alarm trigger	0	ALWAYS	ALWAYS	0 – 65535	All
40273	float	**Alarm_trip_value**	DIGITAL OUTPUT 1: Alarm Threshold for "closed" and "open" condition OR first alarm Threshold for "within threshold" and "Outside threshold" condition	0	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All

40275	float	**Alarm_hysteresis**	DIGITAL OUTPUT 1: Alarm Hysteresis	0	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40277	float	**Alarm_trip_value_2**	DIGITAL OUTPUT 1: Second alarm Threshold for "within threshold" and "Outside threshold" condition	0	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40281	float	**Nominal_Star_Voltage**	Nominal Star Voltage for Sag, Swell, Interruption monitoring [V]	230	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40283	float	**Sag_percentage_level**	Percentage over Nominal_Star_Voltage under which a Sag event is generated (default 0.9 = 90 %); must be over Interruption_percentage_level	0.8	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40285	float	**Swell_percentage_level**	Percentage over Nominal_Star_Voltage over which a Swell event is generated (default 1.1 = 110 %)	1.2	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40287	float	**Interruption_percentage_level**	Percentage over Nominal_Star_Voltage under which an Interruption event is generated (default 0.1 = 10 %)	0.1	ALWAYS	ALWAYS	-3.4028235e+38 – 3.4028235e+38	All
40291	unsigned short	**Minimum_duration_cutoff**	Sag, Swell or Interruption events must be above this cutoff to be displayed and saved [ms]	0	ALWAYS	ALWAYS	0 – 65535	All
40292	unsigned short	**Modbus_TCP_port**	Porta server modbus TCP	502	ALWAYS	ALWAYS	0 – 65535	All
40293 – 40324	char × 32	**Wifi_STA_SSID_target_0** **…** **Wifi_STA_SSID_target_31**	WI-FI STA Access point SSID 0 … WI-FI STA Access point SSID 31		ALWAYS	ALWAYS	-128 – 255	All
40325 – 40356	char × 32	**Wifi_STA_PASSWORD_target_0** **…** **Wifi_STA_PASSWORD_target_31**	WI-FI STA Access point Password 0 … WI-FI STA Access point Password 31		NEVER	ALWAYS	-128 – 255	All
40389	unsigned short	**Wifi_STA_IP_0**	WI-FI STA IP static (DHCP off) 0	192	ALWAYS	ALWAYS	0 – 65535	All
40390	unsigned short	**Wifi_STA_IP_1**	WI-FI STA IP static (DHCP off) 1	168	ALWAYS	ALWAYS	0 – 65535	All

40391	unsigned short	**Wifi_STA_IP_2**	WI-FI STA IP static (DHCP off) 2	178	ALWAYS	ALWAYS	0 – 65535	All
40392	unsigned short	**Wifi_STA_IP_3**	WI-FI STA IP static (DHCP off) 3	200	ALWAYS	ALWAYS	0 – 65535	All
40393	unsigned short	**Wifi_STA_Netmask_0**	WI-FI STA NETMASK static (DHCP off) 0	255	ALWAYS	ALWAYS	0 – 65535	All
40394	unsigned short	**Wifi_STA_Netmask_1**	WI-FI STA NETMASK static (DHCP off) 1	255	ALWAYS	ALWAYS	0 – 65535	All
40395	unsigned short	**Wifi_STA_Netmask_2**	WI-FI STA NETMASK static (DHCP off) 2	255	ALWAYS	ALWAYS	0 – 65535	All
40396	unsigned short	**Wifi_STA_Netmask_3**	WI-FI STA NETMASK static (DHCP off) 3	0	ALWAYS	ALWAYS	0 – 65535	All
40397	unsigned short	**Wifi_STA_Gateway_0**	WI-FI STA GATEWAY static (DHCP off) 0	192	ALWAYS	ALWAYS	0 – 65535	All
40398	unsigned short	**Wifi_STA_Gateway_1**	WI-FI STA GATEWAY static (DHCP off) 1	168	ALWAYS	ALWAYS	0 – 65535	All
40399	unsigned short	**Wifi_STA_Gateway_2**	WI-FI STA GATEWAY static (DHCP off) 2	178	ALWAYS	ALWAYS	0 – 65535	All
40400	unsigned short	**Wifi_STA_Gateway_3**	WI-FI STA GATEWAY static (DHCP off) 3	200	ALWAYS	ALWAYS	0 – 65535	All
40401	unsigned short	**Wifi_STA_IP_assigned_by_dhcp_0**	WI-FI STA IP SET (DHCP on) 0	0	ALWAYS	ALWAYS	0 – 65535	All
40402	unsigned short	**Wifi_STA_IP_assigned_by_dhcp_1**	WI-FI STA IP SET (DHCP on) 1	0	ALWAYS	ALWAYS	0 – 65535	All
40403	unsigned short	**Wifi_STA_IP_assigned_by_dhcp_2**	WI-FI STA IP SET (DHCP on) 2	0	ALWAYS	ALWAYS	0 – 65535	All
40404	unsigned short	**Wifi_STA_IP_assigned_by_dhcp_3**	WI-FI STA IP SET (DHCP on) 3	0	ALWAYS	ALWAYS	0 – 65535	All
40405	unsigned short	**Wifi_STA_Netmask_assigned_by_dhcp_0**	WI-FI STA NETMASK SET (DHCP on) 0	0	ALWAYS	ALWAYS	0 – 65535	All
40406	unsigned short	**Wifi_STA_Netmask_assigned_by_dhcp_1**	WI-FI STA NETMASK SET (DHCP on) 1	0	ALWAYS	ALWAYS	0 – 65535	All
40407	unsigned short	**Wifi_STA_Netmask_assigned_by_dhcp_2**	WI-FI STA NETMASK SET (DHCP on) 2	0	ALWAYS	ALWAYS	0 – 65535	All
40408	unsigned short	**Wifi_STA_Netmask_assigned_by_dhcp_3**	WI-FI STA NETMASK SET (DHCP on) 3	0	ALWAYS	ALWAYS	0 – 65535	All
40409	unsigned short	**Wifi_STA_Gateway_assigned_by_dhcp_0**	WI-FI STA GATEWAY SET (DHCP on) 0	0	ALWAYS	ALWAYS	0 – 65535	All
40410	unsigned short	**Wifi_STA_Gateway_assigned_by_dhcp_1**	WI-FI STA GATEWAY SET (DHCP on) 1	0	ALWAYS	ALWAYS	0 – 65535	All
40411	unsigned short	**Wifi_STA_Gateway_assigned_by_dhcp_2**	WI-FI STA GATEWAY SET (DHCP on) 2	0	ALWAYS	ALWAYS	0 – 65535	All
40412	unsigned short	**Wifi_STA_Gateway_assigned_by_dhcp_3**	WI-FI STA GATEWAY SET (DHCP on) 3	0	ALWAYS	ALWAYS	0 – 65535	All
40413 – 40444	char × 32	**Wifi_AP_SSID_0 … Wifi_AP_SSID_31**	WI-FI AP SSID 0 … WI-FI AP SSID 31		ALWAYS	ALWAYS	-128 – 255	All
40445 – 40476	char × 32	**Wifi_AP_PASSWORD_0 … Wifi_AP_PASSWORD_31**	WI-FI AP PASSWORD 0 … WI-FI AP PASSWORD 31		NEVER	ALWAYS	-128 – 255	All
40509	unsigned short	**Wifi_AP_IP_0**	WI-FI AP IP 0	192	ALWAYS	ALWAYS	0 – 65535	All

40510	unsigned short	**Wifi_AP_IP_1**	WI-FI AP IP 1	168	ALWAYS	ALWAYS	0 – 65535	All
40511	unsigned short	**Wifi_AP_IP_2**	WI-FI AP IP 2	4	ALWAYS	ALWAYS	0 – 65535	All
40512	unsigned short	**Wifi_AP_IP_3**	WI-FI AP IP 3	1	ALWAYS	ALWAYS	0 – 65535	All
40513	unsigned short	**Wifi_AP_Netmask_0**	WI-FI AP NETMASK 0	255	ALWAYS	ALWAYS	0 – 65535	All
40514	unsigned short	**Wifi_AP_Netmask_1**	WI-FI AP NETMASK 1	255	ALWAYS	ALWAYS	0 – 65535	All
40515	unsigned short	**Wifi_AP_Netmask_2**	WI-FI AP NETMASK 2	255	ALWAYS	ALWAYS	0 – 65535	All
40516	unsigned short	**Wifi_AP_Netmask_3**	WI-FI AP NETMASK 3	0	ALWAYS	ALWAYS	0 – 65535	All
40517	unsigned short	**Wifi_AP_Gateway_0**	WI-FI AP GATEWAY 0	192	ALWAYS	ALWAYS	0 – 65535	All
40518	unsigned short	**Wifi_AP_Gateway_1**	WI-FI AP GATEWAY 1	168	ALWAYS	ALWAYS	0 – 65535	All
40519	unsigned short	**Wifi_AP_Gateway_2**	WI-FI AP GATEWAY 2	4	ALWAYS	ALWAYS	0 – 65535	All
40520	unsigned short	**Wifi_AP_Gateway_3**	WI-FI AP GATEWAY 3	1	ALWAYS	ALWAYS	0 – 65535	All
40577	unsigned long	**Communications_settings**	Bit 0: Ethernet DHCP 0 → Disabled (static address from registers) 1 → Enabled (default) Bit 1: Wi-Fi STA DHCP 0 → Disabled (static address from registers) 1 → Enabled (default)	3	ALWAYS	ALWAYS	0 – 4294967295	All
40579	signed long	**UTC_Time_zone_value**	The value of this register sets the Time Zone out of a list of 461 elements. The entire list is in the documentation, the default value is 390 which is for 'Europe/Rome'	390	ALWAYS	ALWAYS	-2147483648 – 2147483647	All
40621	float	**cutoff_phase_harmonic**	cutoff for harmonic phase: if the AMPLITUDE is less than the cutoff, the phase is 0	0.03	ALWAYS	ALWAYS	0 – 3.4028235e+38	FULL
40631 – 40650	unsigned short × 20	**logging_register_address_1** **…** **logging_register_address_20**	Modbus Address to do logging in position 1 … Modbus Address to do logging in position 20		ALWAYS	ALWAYS	40000 – 49653	FULL
40651	unsigned short	**logging_period_s_flash**	logging period in seconds	5	ALWAYS	ALWAYS	5 – 65535	FULL
40652 – 40671	unsigned short × 20	**mqtt_logging_register_address_1** **…** **mqtt_logging_register_address_20**	Modbus Address used to log data with MQTT 1 … Modbus Address used to log data with MQTT 20		ALWAYS	ALWAYS	40000 – 49653	FULL
40672	unsigned short	**mqtt_logging_period_s**	mqtt publish period	20	ALWAYS	ALWAYS	5 – 65535	FULL

40674 – 40689	char × 16	**webserver_user_psw_0 … webserver_user_psw_15**	webserver authentication user password char 0 … webserver authentication user password char 15		NEVER	ALWAYS	-128 – 255	All
40690 – 40705	char × 16	**webserver_inst_psw_0 … webserver_inst_psw_15**	webserver authentication installator password char 0 … webserver authentication installator password char 15		NEVER	ALWAYS	-128 – 255	All
40715	signed short	**wifi_tx_power**	Wifi Strength of our antenna in dBm	20	ALWAYS	ALWAYS	-32768 – 32767	All
40716	unsigned short	**Pulses_per_kWh**	Pulses per kWh impulsive digital output	1000	ALWAYS	ALWAYS	0 – 65535	All

3.3 Energies

Energies								
Register	**Type**	**Name**	**Description**	**Default**	**Read**	**Write**	**Min – Max**	**Ver.**
40721	signed long long	**KWh1**	Active energy line 1 [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.22337 2e+18 – 9.22337 2e+18	All
40725	signed long long	**KWh2**	Active energy line 2 [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.22337 2e+18 – 9.22337 2e+18	All
40729	signed long long	**KWh3**	Active energy line 3 [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.22337 2e+18 – 9.22337 2e+18	All
40733	signed long long	**KWh_SUM**	Active energy three phase [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.22337 2e+18 – 9.22337 2e+18	All
40737	signed long long	**KWh1_Plus**	Positive Active energy line 1 [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.22337 2e+18 – 9.22337 2e+18	All
40741	signed long long	**KWh2_Plus**	Positive Active energy line 2 [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.22337 2e+18 – 9.22337 2e+18	All
40745	signed long long	**KWh3_Plus**	Positive Active energy line 3 [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.22337 2e+18 – 9.22337 2e+18	All

40749	signed long long	**KWh_SUM_Plus**	Positive Active energy three phase [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40753	signed long long	**KWh1_Neg**	Negative Active energy line 1 [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40757	signed long long	**KWh2_Neg**	Negative Active energy line 2 [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40761	signed long long	**KWh3_Neg**	Negative Active energy line 3 [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40765	signed long long	**KWh_SUM_Neg**	Negative Active energy three phase [Wh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40769	signed long long	**KVARh1**	Reactive energy line 1 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40773	signed long long	**KVARh2**	Reactive energy line 2 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40777	signed long long	**KVARh3**	Reactive energy line 3 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40781	signed long long	**KVARh_SUM**	Reactive energy three phase [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40785	signed long long	**KVARh1_Inductive_positive**	Inductive (positive P) Reactive energy line 1 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40789	signed long long	**KVARh2_Inductive_positive**	Inductive (positive P) Reactive energy line 2 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All

40793	signed long long	**KVARh3_Inductive_positive**	Inductive (positive P) Reactive energy line 3 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40797	signed long long	**KVARh_SUM_Inductive_positive**	Inductive (positive P) Reactive energy three phase [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40801	signed long long	**KVARh1_Inductive_negative**	Inductive (negative P) Reactive energy line 1 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40805	signed long long	**KVARh2_Inductive_negative**	Inductive (negative P) Reactive energy line 2 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40809	signed long long	**KVARh3_Inductive_negative**	Inductive (negative P) Reactive energy line 3 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40813	signed long long	**KVARh_SUM_Inductive_negative**	Inductive (negative P) Reactive energy three phase [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40817	signed long long	**KVARh1_Capacitive_positive**	Capacitive (positive P) Reactive energy line 1 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40821	signed long long	**KVARh2_Capacitive_positive**	Capacitive (positive P) Reactive energy line 2 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40825	signed long long	**KVARh3_Capacitive_positive**	Capacitive (positive P) Reactive energy line 3 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40829	signed long long	**KVARh_SUM_Capacitive_positive**	Capacitive (positive P) Reactive energy three phase [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40833	signed long long	**KVARh1_Capacitive_negative**	Capacitive (negative P) Reactive energy line 1 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All

40837	signed long long	**KVARh2_Capacitive_negative**	Capacitive (negative P) Reactive energy line 2 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40841	signed long long	**KVARh3_Capacitive_negative**	Capacitive (negative P) Reactive energy line 3 [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40845	signed long long	**KVARh_SUM_Capacitive_negative**	Capacitive (negative P) Reactive energy three phase [VARh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40849	signed long long	**KVAh1**	Apparent energy line 1 [VAh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40853	signed long long	**KVAh2**	Apparent energy line 2 [VAh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40857	signed long long	**KVAh3**	Apparent energy line 3 [VAh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40861	signed long long	**KVAh_SUM**	Apparent energy three phase [VAh tenth]	0	ALWAYS	WITH PASS INST	-9.223372e+18 – 9.223372e+18	All
40865	signed long long	**Wh_storage_count**	Number of Wh flash savings (every 1 minute)	0	ALWAYS	NEVER	-9.223372e+18 – 9.223372e+18	All
40869	unsigned long	**Working_time**	Working time of the device [mins]	0	ALWAYS	WITH PASS C	0 – 4294967295	All
40891	unsigned long	**Communication_status**	Bit 0: Wifi Sta Connected 0 → Not Connected (default) 1 → Connected Bit 1: Ethernet Connected 0 → Not Connected (default) 1→ Connected Bit 2: Connected cloud service 0 → Not Connected (default) 1→ Connected	0	ALWAYS	NEVER	0 – 4294967295	All

3.4 Real-time measurements

Real-time measurements								
Register	Type	Name	Description	Default	Read	Write	Min – Max	Ver.

40897	unsigned long	**Status_1**	//STATUS_1 bit #define FLASH_SETTINGS_ERROR 0x00000001 #define FLASH_CALIBRATION_ERROR 0x00000002 #define I1_OVER_RANGE 0x00000004 #define I1_UNDER_RANGE 0x00000008 #define I2_OVER_RANGE 0x00000010 #define I2_UNDER_RANGE 0x00000020 #define I3_OVER_RANGE 0x00000040 #define I3_UNDER_RANGE 0x00000080 #define V1_OVER_RANGE 0x00000100 #define V1_UNDER_RANGE 0x00000200 #define V2_OVER_RANGE 0x00000400 #define V2_UNDER_RANGE 0x00000800 #define V3_OVER_RANGE 0x00001000 #define V3_UNDER_RANGE 0x00002000 #define ZX_DETECTING 0x00004000 #define SWITCH_OPEN 0x00008000 #define WH_STORING_ERROR 0x00010000 #define BUZZER_ON 0x00020000 #define RTC_CLOCK_NOT_UPDATED 0x00040000 #define ALARM_TRIGGER_REQUEST 0x00080000 #define ZX_SIGNAL_ACQUIRED 0x00200000 #define LOW_IL1_MEASUREMENT 0x00400000 #define LOW_IL2_MEASUREMENT 0x00800000 #define LOW_IL3_MEASUREMENT 0x01000000 #define PF1_INDUCTIVE 0x10000000 #define PF2_INDUCTIVE 0x20000000 #define PF3_INDUCTIVE 0x40000000	0	ALWAYS	NEVER	0 – 4294967295	All

40899	unsigned long	**Status_2**	//STATUS_2 bit #define EVENT_MONITORING_READY_L1N 0x00000020 #define EVENT_MONITORING_READY_L2N 0x00000040 #define EVENT_MONITORING_READY_L3N 0x00000080 #define EVENT_PRESENT 0x00000800 #define FREQ_COPIED 0x00001000 #define NTP_SET 0x00002000 #define SWITCH_OPEN_L1 0x00008000 #define SWITCH_OPEN_L2 0x00010000 #define SWITCH_OPEN_L3 0x00020000 #define TOUCH_BOTTON_PRESSED 0x00040000 #define ERROR_TEMP_SENSOR 0x00080000 #define ERROR_TOUCH_SENSOR 0x00100000 #define REQUEST_RESET_SETTINGS 0x00200000 #define RTC_WRITING_IN_PROGRESS 0x00400000 #define REQUEST_RSSI 0x00800000 #define MAX_DEMAND_STORING_ERROR 0x01000000 #define POWER_QUALITY_BLANKING 0x02000000 #define POWER_QUALITY_FLASH_ERROR 0X04000000 #define REQUEST_CHANGE_ENERGY_UNIT 0x08000000 #define CERTS_ERROR 0x10000000 #define PQ_BLANKING_LOW_DURATION 0x20000000	0	ALWAYS	NEVER	0 – 4294967295	All

40901	unsigned long	**Status_3**	Bit 0: Wifi Sta Connected 0 → Not Connected (default) 1 → Connected Bit 1: Ethernet Connected 0 → Not Connected (default) 1 → Connected Bit 2: SD Card Connected 0 → Not Connected (default) 1 → Connected Bit 3: USB Connected 0 → Not Connected (default) 1 → Connected Bit 4: Cloud Service Connected 0 → Not Connected (default) 1 → Connected	0	ALWAYS	NEVER	0 – 4294967295	All

40906	unsigned short	**Command**	//commands to be written to the COMMAND register #define COMANDO_SALVATAGGIO_FLASH_TARATURE 0xC1B0U #define COMANDO_SALVATAGGIO_FLASH_SOLO_SETTAGGI 0xF1C0U #define COMANDO_SALVATAGGIO_FLASH_SETTAGGI_E_NFC 0xC1C0U #define COMANDO_RESET_SETTINGS_DEFAULT 0XD1C0U #define COMANDO_LEGGI_DIP 0xD166U #define COMANDO_RESET 0xC1A0U #define COMANDO_SAVE_ENERGY 0xBABAU #define COMANDO_SAVE_DIG_IN 0xBABBU #define GET_ADC_MEDIA_VALUE 0xBABDU #define COMANDO_BOOTLOADER 0xB000U #define COMANDO_DISATTIVA_SS 0xC000U #define COMANDO_TARATURA_PWM 0xCACAU #define COMANDO_CLOSE_SWITCH 0xDAAAU #define COMANDO_OPEN_SWITCH 0xDAABU #define COMANDO_CLOSE_SWITCH_2 0xDAACU #define COMANDO_OPEN_SWITCH_2 0xDAADU #define COMANDO_BUZZER_ON 0xDABAU #define COMANDO_BUZZER_OFF 0xDABBU #define COMANDO_LEGGI_EVENTI_SAG 0xE000U #define COMANDO_LEGGI_EVENTI_SWELL 0xE100U #define COMANDO_LEGGI_EVENTI_INTERRUPTION 0xE200U	0	ALWAYS	ALWAYS	0 – 65535	All
			#define COMANDO_RESET_EVENTI_SAG 0xE300U #define					

40907	float	**V_L1_N**	RMS star voltage L1-N [V]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40909	float	**V_L2_N**	RMS star voltage L2-N [V]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40911	float	**V_L3_N**	RMS star voltage L3-N [V]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40913	float	**V_STAR_AVG**	RMS star avg value voltage [V]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40915	float	**V_L1_L2**	RMS line voltage L1-L2 [V]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40917	float	**V_L2_L3**	RMS line voltage L2-L3 [V]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40919	float	**V_L3_L1**	RMS line voltage L3-L1 [V]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40921	float	**V_LINE_AVG**	RMS line avg value voltage [V]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40923	float	**I_L1**	RMS line current L1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40925	float	**I_L2**	RMS line current L2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

40927	float	**I_L3**	RMS line current L3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40929	float	**I_N**	RMS line current N (if 1 or 2 TA connection, I_N = 0)	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40931	float	**I_AVG**	RMS avg value current (excluding neutral current I_N)	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40933	float	**P1**	RMS active power line 1 [W]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40935	float	**P2**	RMS active power line 2 [W]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40937	float	**P3**	RMS active power line 3 [W]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40939	float	**P_SUM**	RMS sum active power [W]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40941	float	**Q1**	RMS reactive power line 1 [VAR]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40943	float	**Q2**	RMS reactive power line 2 [VAR]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40945	float	**Q3**	RMS reactive power line 3 [VAR]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

40947	float	**Q_SUM**	RMS sum reactive power [VAR]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40949	float	**S1**	RMS apparent power line 1 [VAR]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40951	float	**S2**	RMS apparent power line 2 [VAR]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40953	float	**S3**	RMS apparent power line 3 [VAR]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40955	float	**S_SUM**	RMS sum apparent power [VAR]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40957	float	**PF1**	Power Factor line 1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40959	float	**PF2**	Power Factor line 2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40961	float	**PF3**	Power Factor line 3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40963	float	**PF_3PH**	Three Phase Power Factor	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40965	float	**CF1**	Crest Factor line 1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

40967	float	**CF2**	Crest Factor line 2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40969	float	**CF3**	Crest Factor line 3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40971	float	**CF_N**	Crest Factor Neutral	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40973	float	**Frequency**	Frequency [Hz]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
40975	float	**V_L1_N_peak**	Star voltage L1-N peak [V]	0	ALWAYS	WITH PASS INST	-3.4028235e+38 – 3.4028235e+38	All
40977	float	**V_L2_N_peak**	Star voltage L2-N peak [V]	0	ALWAYS	WITH PASS INST	-3.4028235e+38 – 3.4028235e+38	All
40979	float	**V_L3_N_peak**	Star voltage L3-N peak [V]	0	ALWAYS	WITH PASS INST	-3.4028235e+38 – 3.4028235e+38	All
40981	float	**V_L1_L2_peak**	Line voltage L1-L2 peak [V]	0	ALWAYS	WITH PASS INST	-3.4028235e+38 – 3.4028235e+38	All
40983	float	**V_L2_L3_peak**	Line voltage L2-L3 peak [V]	0	ALWAYS	WITH PASS INST	-3.4028235e+38 – 3.4028235e+38	All
40985	float	**V_L3_L1_peak**	Line voltage L3-L1 peak [V]	0	ALWAYS	WITH PASS INST	-3.4028235e+38 – 3.4028235e+38	All

40987	float	**I_L1_peak**	L1 current peak	0	ALWAYS	WITH PASS INST	-3.4028235e+38 – 3.4028235e+38	All
40989	float	**I_L2_peak**	L2 current peak	0	ALWAYS	WITH PASS INST	-3.4028235e+38 – 3.4028235e+38	All
40991	float	**I_L3_peak**	L3 current peak	0	ALWAYS	WITH PASS INST	-3.4028235e+38 – 3.4028235e+38	All
40993	float	**I_N_peak**	N current peak	0	ALWAYS	WITH PASS INST	-3.4028235e+38 – 3.4028235e+38	All
41057	float	**TAN_FI_1**	Tangentθline 1 (+ inductive, - capacitive)	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41059	float	**TAN_FI_2**	Tangentθline 2 (+ inductive, - capacitive)	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41061	float	**TAN_FI_3**	Tangentθline 3 (+ inductive, - capacitive)	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41063	float	**TAN_FI_AVG**	Average Tangentθ(+ inductive, - capacitive)	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41065	float	**Phase_Order**	L1, L2, L3 = 0; L1, L3, L2 = 1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41067	float	**Internal_temperature**	Internal Temperature [°C]	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

3.5 Average, maximum and minimum values

Average, maximum and minimum values								
Register	**Type**	**Name**	**Description**	**Default**	**Read**	**Write**	**Min – Max**	**Ver.**
41069	float	**V_L1_N_RMS_AVG**	Star voltage L1_N RMS average [V] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41071	float	**V_L1_N_RMS_MAX**	Star voltage L1_N MAX RMS [V] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41073	float	**V_L1_N_RMS_min**	Star voltage L1_N Min RMS [V] over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41075	float	**V_L2_N_RMS_AVG**	Star voltage L2_N RMS average [V] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41077	float	**V_L2_N_RMS_MAX**	Star voltage L2_N MAX RMS [V] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41079	float	**V_L2_N_RMS_min**	Star voltage L2_N Min RMS [V] over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41081	float	**V_L3_N_RMS_AVG**	Star voltage L3_N RMS average [V] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41083	float	**V_L3_N_RMS_MAX**	Star voltage L3_N MAX RMS [V] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41085	float	**V_L3_N_RMS_min**	Star voltage L3_N Min RMS [V] over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41087	float	**V_STAR_AVG_RMS_AVG**	Star voltage AVG RMS average [V] over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41089	float	**V_STAR_AVG_RMS_MAX**	Star voltage AVG MAX RMS [V] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41091	float	**V_STAR_AVG_RMS_min**	Star voltage AVG Min RMS [V] over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41093	float	**V_L1_L2_RMS_AVG**	Line voltage L1-Line voltage L2-Line voltage L3-L1 RMS average [V] over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41095	float	**V_L1_L2_RMS_MAX**	Line voltage L1-Line voltage L2-Line voltage L3-L1 MAX RMS [V] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41097	float	**V_L1_L2_RMS_min**	Line voltage L1-Line voltage L2-Line voltage L3-L1 Min RMS [V] over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41099	float	**V_L2_L3_RMS_AVG**	Line voltage L2-Line voltage L3-L1 RMS average [V] over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41101	float	**V_L2_L3_RMS_MAX**	Line voltage L2-Line voltage L3-L1 MAX RMS [V] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41103	float	**V_L2_L3_RMS_min**	Line voltage L2-Line voltage L3-L1 Min RMS [V] over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41105	float	**V_L3_L1_RMS_AVG**	Line voltage L3-L1 RMS average [V] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41107	float	**V_L3_L1_RMS_MAX**	Line voltage L3-L1 MAX RMS [V] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41109	float	**V_L3_L1_RMS_min**	Line voltage L3-L1 Min RMS [V] over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41111	float	**V_LINE_AVG_RMS_AVG**	Line voltage AVG RMS average [V] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41113	float	**V_LINE_AVG_RMS_MAX**	Line voltage AVG MAX RMS [V] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41115	float	**V_LINE_AVG_RMS_min**	Line voltage AVG Min RMS [V] over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41117	float	**I_L1_RMS_AVG**	L1 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41119	float	**I_L1_RMS_MAX**	L1 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41121	float	**I_L1_RMS_min**	L1 Min RMS over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41123	float	**I_L2_RMS_AVG**	L2 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41125	float	**I_L2_RMS_MAX**	L2 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41127	float	**I_L2_RMS_min**	L2 Min RMS over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41129	float	**I_L3_RMS_AVG**	L3 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41131	float	**I_L3_RMS_MAX**	L3 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41133	float	**I_L3_RMS_min**	L3 Min RMS over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41135	float	**I_N_RMS_AVG**	N RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41137	float	**I_N_RMS_MAX**	N MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41139	float	**I_N_RMS_min**	N Min RMS over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41141	float	**I_AVG_RMS_AVG**	I_AVG RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41143	float	**I_AVG_RMS_MAX**	I_AVG MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41145	float	**I_AVG_RMS_min**	I_AVG Min RMS over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41147	float	**P1_RMS_AVG**	P1 RMS average [W] over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41149	float	**P1_RMS_MAX**	P1 MAX RMS [W] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41151	float	**P1_RMS_min**	P1 Min RMS [W] over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41153	float	**P2_RMS_AVG**	P2 RMS average [W] over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41155	float	**P2_RMS_MAX**	P2 MAX RMS [W] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41157	float	**P2_RMS_min**	P2 Min RMS [W] over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41159	float	**P3_RMS_AVG**	P3 RMS average [W] over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41161	float	**P3_RMS_MAX**	P3 MAX RMS [W] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41163	float	**P3_RMS_min**	P3 Min RMS [W] over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41165	float	**P_SUM_RMS_AVG**	P_SUM RMS average [W] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41167	float	**P_SUM_RMS_MAX**	P_SUM MAX RMS [W] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41169	float	**P_SUM_RMS_min**	P_SUM Min RMS [W] over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41171	float	**Q1_RMS_AVG**	Q1 RMS average [VAR] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41173	float	**Q1_RMS_MAX**	Q1 MAX RMS [VAR] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41175	float	**Q1_RMS_min**	Q1 Min RMS [VAR] over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41177	float	**Q2_RMS_AVG**	Q2 RMS average [VAR] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41179	float	**Q2_RMS_MAX**	Q2 MAX RMS [VAR] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41181	float	**Q2_RMS_min**	Q2 Min RMS [VAR] over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41183	float	**Q3_RMS_AVG**	Q3 RMS average [VAR] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41185	float	**Q3_RMS_MAX**	Q3 MAX RMS [VAR] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41187	float	**Q3_RMS_min**	Q3 Min RMS [VAR] over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41189	float	**Q_SUM_RMS_AVG**	Q_SUM RMS average [VAR] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41191	float	**Q_SUM_RMS_MAX**	Q_SUM MAX RMS [VAR] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41193	float	**Q_SUM_RMS_min**	Q_SUM Min RMS [VAR] over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41195	float	**S1_RMS_AVG**	S1 RMS average [VA] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41197	float	**S1_RMS_MAX**	S1 MAX RMS [VA] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41199	float	**S1_RMS_min**	S1 Min RMS [VA] over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41201	float	**S2_RMS_AVG**	S2 RMS average [VA] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41203	float	**S2_RMS_MAX**	S2 MAX RMS [VA] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41205	float	**S2_RMS_min**	S2 Min RMS [VA] over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41207	float	**S3_RMS_AVG**	S3 RMS average [VA] over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41209	float	**S3_RMS_MAX**	S3 MAX RMS [VA] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41211	float	**S3_RMS_min**	S3 Min RMS [VA] over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41213	float	**S_SUM_RMS_AVG**	S_SUM RMS average [VA] over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41215	float	**S_SUM_RMS_MAX**	S_SUM MAX RMS [VA] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41217	float	**S_SUM_RMS_min**	S_SUM Min RMS [VA] over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41219	float	**PF1_RMS_AVG**	PF1 RMS average over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41221	float	**PF1_RMS_MAX**	PF1 MAX RMS over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41223	float	**PF1_RMS_min**	PF1 Min RMS over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41225	float	**PF2_RMS_AVG**	PF2 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41227	float	**PF2_RMS_MAX**	PF2 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41229	float	**PF2_RMS_min**	PF2 Min RMS over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41231	float	**PF3_RMS_AVG**	PF3 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41233	float	**PF3_RMS_MAX**	PF3 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41235	float	**PF3_RMS_min**	PF3 Min RMS over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41237	float	**PF_SUM_RMS_AVG**	PF_SUM RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41239	float	**PF_SUM_RMS_MAX**	PF_SUM MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41241	float	**PF_SUM_RMS_min**	PF_SUM Min RMS over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41243	float	**CF1_RMS_AVG**	CF1 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41245	float	**CF1_RMS_MAX**	CF1 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41247	float	**CF1_RMS_min**	CF1 Min RMS over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41249	float	**CF2_RMS_AVG**	CF2 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41251	float	**CF2_RMS_MAX**	CF2 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41253	float	**CF2_RMS_min**	CF2 Min RMS over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41255	float	**CF3_RMS_AVG**	CF3 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41257	float	**CF3_RMS_MAX**	CF3 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41259	float	**CF3_RMS_min**	CF3 Min RMS over last"seconds_for_min_RMS"	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41261	float	**CF_N_RMS_AVG**	CF_N RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41263	float	**CF_N_RMS_MAX**	CF_N MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41265	float	**CF_N_RMS_min**	CF_N Min RMS over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41267	float	**Frequency_RMS_AVG**	Frequency average over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41269	float	**Frequency_RMS_MAX**	Frequency MAX over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41271	float	**Frequency_RMS_min**	Frequency Min over last“seconds_for_min_RMS”	100000	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41281	float	**P1_Tot_AVG**	Average total Power over "minute_for_Max_and_AVG_demand" for P1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41283	float	**P2_Tot_AVG**	Average total Power over "minute_for_Max_and_AVG_demand" for P2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41285	float	**P3_Tot_AVG**	Average total Power over "minute_for_Max_and_AVG_demand" for P3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41287	float	**P_SUM_Tot_AVG**	Average total Power over "minute_for_Max_and_AVG_demand" for P three phase	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41289	float	**P1_Plus_AVG**	Average positive Power over "minute_for_Max_and_AVG_demand" for P1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41291	float	**P2_Plus_AVG**	Average positive Power over "minute_for_Max_and_AVG_demand" for P2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41293	float	**P3_Plus_AVG**	Average positive Power over "minute_for_Max_and_AVG_demand" for P3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41295	float	**P_SUM_Plus_AVG**	Average positive Power over "minute_for_Max_and_AVG_demand" for P three phase	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41297	float	**P1_Neg_AVG**	Average Negative Power over "minute_for_Max_and_AVG_demand" for P1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41299	float	**P2_Neg_AVG**	Average Negative Power over "minute_for_Max_and_AVG_demand" for P2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41301	float	**P3_Neg_AVG**	Average Negative Power over "minute_for_Max_and_AVG_demand" for P3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41303	float	**P_SUM_Neg_AVG**	Average Negative Power over "minute_for_Max_and_AVG_demand" for P three phase	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41305	float	**Q1_Plus_AVG_ind**	Average Reactive Inductive Power with positive active power over "minute_for_Max_and_AVG_demand" for Q1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41307	float	**Q2_Plus_AVG_ind**	Average Reactive Inductive Power with positive active power over "minute_for_Max_and_AVG_demand" for Q2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41309	float	**Q3_Plus_AVG_ind**	Average Reactive Inductive Power with positive active power over "minute_for_Max_and_AVG_demand" for Q3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41311	float	**Q_SUM_Plus_AVG_ind**	Average Reactive Inductive Power with positive active power over "minute_for_Max_and_AVG_demand" for Q three phase	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41313	float	**Q1_Neg_AVG_ind**	Average Reactive Inductive Power with negative active power over "minute_for_Max_and_AVG_demand" for Q1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41315	float	**Q2_Neg_AVG_ind**	Average Reactive Inductive Power with negative active power over "minute_for_Max_and_AVG_demand" for Q2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41317	float	**Q3_Neg_AVG_ind**	Average Reactive Inductive Power with negative active power over "minute_for_Max_and_AVG_demand" for Q3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41319	float	**Q_SUM_Neg_AVG_ind**	Average Reactive Inductive Power with negative active power over "minute_for_Max_and_AVG_demand" for Q three phase	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41321	float	**Q1_Plus_AVG_cap**	Average Reactive Capacitive Power with positive active power over "minute_for_Max_and_AVG_demand" for Q1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41323	float	**Q2_Plus_AVG_cap**	Average Reactive Capacitive Power with positive active power over "minute_for_Max_and_AVG_demand" for Q2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41325	float	**Q3_Plus_AVG_cap**	Average Reactive Capacitive Power with positive active power over "minute_for_Max_and_AVG_demand" for Q3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41327	float	**Q_SUM_Plus_AVG_cap**	Average Reactive Capacitive Power with positive active power over "minute_for_Max_and_AVG_demand" for Q three phase	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41329	float	**Q1_Neg_AVG_cap**	Average Reactive Capacitive Power with negative active power over "minute_for_Max_and_AVG_demand" for Q1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41331	float	**Q2_Neg_AVG_cap**	Average Reactive Capacitive Power with negative active power over "minute_for_Max_and_AVG_demand" for Q2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All

41333	float	**Q3_Neg_AVG_cap**	Average Reactive Capacitive Power with negative active power over "minute_for_Max_and_AVG_demand" for Q3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41335	float	**Q_SUM_Neg_AVG_cap**	Average Reactive Capacitive Power with negative active power over "minute_for_Max_and_AVG_demand" for Q three phase	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41337	float	**P1_MaxDemand**	MAX Demand over "minute_for_Max_and_AVG_demand" for P1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41339	float	**P2_MaxDemand**	MAX Demand over "minute_for_Max_and_AVG_demand" for P2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41341	float	**P3_MaxDemand**	MAX Demand over "minute_for_Max_and_AVG_demand" for P3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41343	float	**P_SUM_MaxDemand**	MAX Demand over "minute_for_Max_and_AVG_demand" for P three phase	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	All
41345	unsigned short	**Month_of_P1_MaxDemand**	Month at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P1 for current month	0	ALWAYS	NEVER	0 – 65535	All
41346	unsigned short	**Day_of_P1_MaxDemand**	Day at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P1 for current month	0	ALWAYS	NEVER	0 – 65535	All
41347	unsigned short	**Hour_of_P1_MaxDemand**	Hour at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P1 for current month	0	ALWAYS	NEVER	0 – 65535	All
41348	unsigned short	**Minute_of_P1_MaxDemand**	Minute at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P1 for current month	0	ALWAYS	NEVER	0 – 65535	All

41349	unsigned short	**Month_of_P2_MaxDemand**	Month at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P2 for current month	0	ALWAYS	NEVER	0 – 65535	All
41350	unsigned short	**Day_of_P2_MaxDemand**	Day at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P2 for current month	0	ALWAYS	NEVER	0 – 65535	All
41351	unsigned short	**Hour_of_P2_MaxDemand**	Hour at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P2 for current month	0	ALWAYS	NEVER	0 – 65535	All
41352	unsigned short	**Minute_of_P2_MaxDemand**	Minute at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P2 for current month	0	ALWAYS	NEVER	0 – 65535	All
41353	unsigned short	**Month_of_P3_MaxDemand**	Month at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P3 for current month	0	ALWAYS	NEVER	0 – 65535	All
41354	unsigned short	**Day_of_P3_MaxDemand**	Day at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P3 for current month	0	ALWAYS	NEVER	0 – 65535	All
41355	unsigned short	**Hour_of_P3_MaxDemand**	Hour at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P3 for current month	0	ALWAYS	NEVER	0 – 65535	All
41356	unsigned short	**Minute_of_P3_MaxDemand**	Minute at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P3 for current month	0	ALWAYS	NEVER	0 – 65535	All
41357	unsigned short	**Month_of_P_SUM_MaxDemand**	Month at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P_SUM for current month	0	ALWAYS	NEVER	0 – 65535	All
41358	unsigned short	**Day_of_P_SUM_Max Demand**	Day at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P_SUM for current month	0	ALWAYS	NEVER	0 – 65535	All
41359	unsigned short	**Hour_of_P_SUM_MaxDemand**	Hour at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P_SUM for current month	0	ALWAYS	NEVER	0 – 65535	All

41360	unsigned short	**Minute_of_P_SUM_MaxDemand**	Minute at which arises Max Demand over "minute_for_Max_and_AVG_demand" for P_SUM for current month	0	ALWAYS	NEVER	0 – 65535	All
41361	unsigned short	**Year**	RTC : year (2000-2099)	2024	ALWAYS	ALWAYS	0 – 65535	All
41362	unsigned short	**Month**	RTC : month (1-12)	10	ALWAYS	ALWAYS	0 – 65535	All
41363	unsigned short	**Day**	RTC : day month (1-31)	17	ALWAYS	ALWAYS	0 – 65535	All
41364	unsigned short	**Hour**	RTC : hour (0-23)	16	ALWAYS	ALWAYS	0 – 65535	All
41365	unsigned short	**Minute**	RTC : minute (0-59)	7	ALWAYS	ALWAYS	0 – 65535	All
41366	unsigned short	**Seconds**	RTC : second (0-59)	45	ALWAYS	ALWAYS	0 – 65535	All
41367	signed short	**RSSI**	Wifi Strength (of the connected AP)	0	ALWAYS	NEVER	-32768 – 32767	All

3.6 Harmonics and interharmonics

Harmonics and interharmonics								
Register	**Type**	**Name**	**Description**	**Default**	**Read**	**Write**	**Min – Max**	**Ver.**
41377	float	**Efficiency**	Calculate efficiency of Phase 1 compared to Phase 2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41379	float	**Voltage_unbalance**	Voltage Unbalance of the three phase system	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41381	float	**K_factor_I1**	K-factor for I1, see IEEE Standard 1100-1992	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41383	float	**K_factor_I2**	K-factor for I2, see IEEE Standard 1100-1992	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41385	float	**K_factor_I3**	K-factor for I3, see IEEE Standard 1100-1992	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

41387	float	**DPF1**	Distortion Power Factor line 1 (+ inductive, - capacitive)	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41389	float	**DPF2**	Distortion Power Factor line 2 (+ inductive, - capacitive)	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41391	float	**DPF3**	Distortion Power Factor line 3 (+ inductive, - capacitive)	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41393	float	**DPF_N**	Neutral Distortion Power Factor (+ inductive, - capacitive)	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41395	float	**THD_V_L1**	THD Star Voltage L1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41397	float	**THD_V_L2**	THD Star Voltage L2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41399	float	**THD_V_L3**	THD Star Voltage L3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41401	float	**THD_V_L12**	THD Line Voltage L1-L2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41403	float	**THD_V_L23**	THD Line Voltage L2-L3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41405	float	**THD_V_L31**	THD Line Voltage L3-L1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

41407	float	**THD_I_L1**	THD Line Current L1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41409	float	**THD_I_L2**	THD Line Current L2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41411	float	**THD_I_L3**	THD Line Current L3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41413	float	**THD_I_N**	THD Neutral Current	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41415	float	**TDD_I_L1**	TDD Line Current L1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41417	float	**TDD_I_L2**	TDD Line Current L2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41419	float	**TDD_I_L3**	TDD Line Current L3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41421 – 41548	float × 64	**V_L1N_H_AMPLITUDE_0 … V_L1N_H_AMPLITUDE_63**	Star Voltage L1-N Harmonic amplitude #0 … Star Voltage L1-N Harmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41549 – 41676	float × 64	**V_L1N_H_PHASE_0 … V_L1N_H_PHASE_63**	Star Voltage L1-N Harmonic phase #0 … Star Voltage L1-N Harmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41677 – 41804	float × 64	**V_L2N_H_AMPLITUDE_0 … V_L2N_H_AMPLITUDE_63**	Star Voltage L2-N Harmonic amplitude #0 … Star Voltage L2-N Harmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

41805 – 41932	float × 64	**V_L2N_H_PHASE_0 … V_L2N_H_PHASE_63**	Star Voltage L2-N Harmonic phase #0 … Star Voltage L2-N Harmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
41933 – 42060	float × 64	**V_L3N_H_AMPLITUDE_0 … V_L3N_H_AMPLITUDE_63**	Star Voltage L3-N Harmonic amplitude #0 … Star Voltage L3-N Harmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
42061 – 42188	float × 64	**V_L3N_H_PHASE_0 … V_L3N_H_PHASE_63**	Star Voltage L3-N Harmonic phase #0 … Star Voltage L3-N Harmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
42189 – 42316	float × 64	**V_L12_H_AMPLITUDE_0 … V_L12_H_AMPLITUDE_63**	Line Voltage L1-L2 Harmonic amplitude #0 … Line Voltage L1-L2 Harmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
42317 – 42444	float × 64	**V_L12_H_PHASE_0 … V_L12_H_PHASE_63**	Line Voltage L1-L2 Harmonic phase #0 … Line Voltage L1-L2 Harmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
42445 – 42572	float × 64	**V_L23_H_AMPLITUDE_0 … V_L23_H_AMPLITUDE_63**	Line Voltage L2-L3 Harmonic amplitude #0 … Line Voltage L2-L3 Harmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
42573 – 42700	float × 64	**V_L23_H_PHASE_0 … V_L23_H_PHASE_63**	Line Voltage L2-L3 Harmonic phase #0 … Line Voltage L2-L3 Harmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
42701 – 42828	float × 64	**V_L31_H_AMPLITUDE_0 … V_L31_H_AMPLITUDE_63**	Line Voltage L3-L1 Harmonic amplitude #0 … Line Voltage L3-L1 Harmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
42829 – 42956	float × 64	**V_L31_H_PHASE_0 … V_L31_H_PHASE_63**	Line Voltage L3-L1 Harmonic phase #0 … Line Voltage L3-L1 Harmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
42957 – 43084	float × 64	**I_L1_H_AMPLITUDE_0 … I_L1_H_AMPLITUDE_63**	Line Current L1 Harmonic amplitude #0 … Line Current L1 Harmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

43085 – 43212	float × 64	**I_L1_H_PHASE_0 … I_L1_H_PHASE_63**	Line Current L1 Harmonic phase #0 … Line Current L1 Harmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
43213 – 43340	float × 64	**I_L2_H_AMPLITUDE_0 … I_L2_H_AMPLITUDE_63**	Line Current L2 Harmonic amplitude #0 … Line Current L2 Harmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
43341 – 43468	float × 64	**I_L2_H_PHASE_0 … I_L2_H_PHASE_63**	Line Current L2 Harmonic phase #0 … Line Current L2 Harmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
43469 – 43596	float × 64	**I_L3_H_AMPLITUDE_0 … I_L3_H_AMPLITUDE_63**	Line Current L3 Harmonic amplitude #0 … Line Current L3 Harmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
43597 – 43724	float × 64	**I_L3_H_PHASE_0 … I_L3_H_PHASE_63**	Line Current L3 Harmonic phase #0 … Line Current L3 Harmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
43725 – 43852	float × 64	**I_N_H_AMPLITUDE_0 … I_N_H_AMPLITUDE_63**	Line Current N Harmonic amplitude #0 … Line Current N Harmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
43853 – 43980	float × 64	**I_N_H_PHASE_0 … I_N_H_PHASE_63**	Line Current N Harmonic phase #0 … Line Current N Harmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
43981 – 44108	float × 64	**V_L1N_IH_AMPLITUDE_0 … V_L1N_IH_AMPLITUDE_63**	Star Voltage L1-N InterHarmonic amplitude #0 … Star Voltage L1-N InterHarmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
44109 – 44236	float × 64	**V_L1N_IH_PHASE_0 … V_L1N_IH_PHASE_63**	Star Voltage L1-N InterHarmonic phase #0 … Star Voltage L1-N InterHarmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
44237 – 44364	float × 64	**V_L2N_IH_AMPLITUDE_0 … V_L2N_IH_AMPLITUDE_63**	Star Voltage L2-N InterHarmonic amplitude #0 … Star Voltage L2-N InterHarmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

44365 – 44492	float × 64	**V_L2N_IH_PHASE_0 … V_L2N_IH_PHASE_63**	Star Voltage L2-N InterHarmonic phase #0 … Star Voltage L2-N InterHarmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
44493 – 44620	float × 64	**V_L3N_IH_AMPLITUDE_0 … V_L3N_IH_AMPLITUDE_63**	Star Voltage L3-N InterHarmonic amplitude #0 … Star Voltage L3-N InterHarmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
44621 – 44748	float × 64	**V_L3N_IH_PHASE_0 … V_L3N_IH_PHASE_63**	Star Voltage L3-N InterHarmonic phase #0 … Star Voltage L3-N InterHarmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
44749 – 44876	float × 64	**V_L12_IH_AMPLITUDE_0 … V_L12_IH_AMPLITUDE_63**	Line Voltage L1-L2 InterHarmonic amplitude #0 … Line Voltage L1-L2 InterHarmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
44877 – 45004	float × 64	**V_L12_IH_PHASE_0 … V_L12_IH_PHASE_63**	Line Voltage L1-L2 InterHarmonic phase #0 … Line Voltage L1-L2 InterHarmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
45005 – 45132	float × 64	**V_L23_IH_AMPLITUDE_0 … V_L23_IH_AMPLITUDE_63**	Line Voltage L2-L3 InterHarmonic amplitude #0 … Line Voltage L2-L3 InterHarmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
45133 – 45260	float × 64	**V_L23_IH_PHASE_0 … V_L23_IH_PHASE_63**	Line Voltage L2-L3 InterHarmonic phase #0 … Line Voltage L2-L3 InterHarmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
45261 – 45388	float × 64	**V_L31_IH_AMPLITUDE_0 … V_L31_IH_AMPLITUDE_63**	Line Voltage L3-L1 InterHarmonic amplitude #0 … Line Voltage L3-L1 InterHarmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
45389 – 45516	float × 64	**V_L31_IH_PHASE_0 … V_L31_IH_PHASE_63**	Line Voltage L3-L1 InterHarmonic phase #0 … Line Voltage L3-L1 InterHarmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
45517 – 45644	float × 64	**I_L1_IH_AMPLITUDE_0 … I_L1_IH_AMPLITUDE_63**	Line Current L1 InterHarmonic amplitude #0 … Line Current L1 InterHarmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

45645 – 45772	float × 64	**I_L1_IH_PHASE_0 … I_L1_IH_PHASE_63**	Line Current L1 InterHarmonic phase #0 … Line Current L1 InterHarmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
45773 – 45900	float × 64	**I_L2_IH_AMPLITUDE_0 … I_L2_IH_AMPLITUDE_63**	Line Current L2 InterHarmonic amplitude #0 … Line Current L2 InterHarmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
45901 – 46028	float × 64	**I_L2_IH_PHASE_0 … I_L2_IH_PHASE_63**	Line Current L2 InterHarmonic phase #0 … Line Current L2 InterHarmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46029 – 46156	float × 64	**I_L3_IH_AMPLITUDE_0 … I_L3_IH_AMPLITUDE_63**	Line Current L3 InterHarmonic amplitude #0 … Line Current L3 InterHarmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46157 – 46284	float × 64	**I_L3_IH_PHASE_0 … I_L3_IH_PHASE_63**	Line Current L3 InterHarmonic phase #0 … Line Current L3 InterHarmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46285 – 46412	float × 64	**I_N_IH_AMPLITUDE_0 … I_N_IH_AMPLITUDE_63**	Line Current N InterHarmonic amplitude #0 … Line Current N InterHarmonic amplitude #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46413 – 46540	float × 64	**I_N_IH_PHASE_0 … I_N_IH_PHASE_63**	Line Current N InterHarmonic phase #0 … Line Current N InterHarmonic phase #63		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

3.7 Power quality

Power quality								
Register	**Type**	**Name**	**Description**	**Default**	**Read**	**Write**	**Min – Max**	**Ver.**
46541	float	**V_SAG_VALUE_N_0**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46543	unsigned short	**V_SAG_YEAR_N_0**	Voltage Sag Year @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL

46544	unsigned short	**V_SAG_MONTH_N_0**	Voltage Sag Month @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46545	unsigned short	**V_SAG_DAY_N_0**	Voltage Sag Day @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46546	unsigned short	**V_SAG_HOUR_N_0**	Voltage Sag Hour @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46547	unsigned short	**V_SAG_MINUTE_N_0**	Voltage Sag Minute @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46548	unsigned short	**V_SAG_SECOND_N_0**	Voltage Sag Second @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46549	unsigned short	**V_SAG_DURATION_N_0**	Voltage Sag Duration [ms] @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46550	unsigned short	**V_SAG_QUERY_N_0**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46551	float	**V_SAG_OLD_VALUE_N_0**	Voltage RMS Value before SAG event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46553	float	**I_SAG_NEW_VALUE_N_0**	Current RMS value during SAG event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46555	float	**I_SAG_OLD_VALUE_N_0**	Current RMS value before SAG event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46557	float	**V_SAG_VALUE_N_1**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46559	unsigned short	**V_SAG_YEAR_N_1**	Voltage Sag Year @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46560	unsigned short	**V_SAG_MONTH_N_1**	Voltage Sag Month @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46561	unsigned short	**V_SAG_DAY_N_1**	Voltage Sag Day @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46562	unsigned short	**V_SAG_HOUR_N_1**	Voltage Sag Hour @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46563	unsigned short	**V_SAG_MINUTE_N_1**	Voltage Sag Minute @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46564	unsigned short	**V_SAG_SECOND_N_1**	Voltage Sag Second @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46565	unsigned short	**V_SAG_DURATION_N_1**	Voltage Sag Duration [ms] @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL

46566	unsigned short	**V_SAG_QUERY_N_1**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46567	float	**V_SAG_OLD_VALUE_N_1**	Voltage RMS Value before SAG event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46569	float	**I_SAG_NEW_VALUE_N_1**	Current RMS value during SAG event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46571	float	**I_SAG_OLD_VALUE_N_1**	Current RMS value before SAG event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46573	float	**V_SAG_VALUE_N_2**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46575	unsigned short	**V_SAG_YEAR_N_2**	Voltage Sag Year @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46576	unsigned short	**V_SAG_MONTH_N_2**	Voltage Sag Month @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46577	unsigned short	**V_SAG_DAY_N_2**	Voltage Sag Day @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46578	unsigned short	**V_SAG_HOUR_N_2**	Voltage Sag Hour @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46579	unsigned short	**V_SAG_MINUTE_N_2**	Voltage Sag Minute @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46580	unsigned short	**V_SAG_SECOND_N_2**	Voltage Sag Second @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46581	unsigned short	**V_SAG_DURATION_N_2**	Voltage Sag Duration [ms] @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46582	unsigned short	**V_SAG_QUERY_N_2**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46583	float	**V_SAG_OLD_VALUE_N_2**	Voltage RMS Value before SAG event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

46585	float	**I_SAG_NEW_VALUE_N_2**	Current RMS value during SAG event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46587	float	**I_SAG_OLD_VALUE_N_2**	Current RMS value before SAG event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46589	float	**V_SAG_VALUE_N_3**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46591	unsigned short	**V_SAG_YEAR_N_3**	Voltage Sag Year @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46592	unsigned short	**V_SAG_MONTH_N_3**	Voltage Sag Month @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46593	unsigned short	**V_SAG_DAY_N_3**	Voltage Sag Day @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46594	unsigned short	**V_SAG_HOUR_N_3**	Voltage Sag Hour @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46595	unsigned short	**V_SAG_MINUTE_N_3**	Voltage Sag Minute @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46596	unsigned short	**V_SAG_SECOND_N_3**	Voltage Sag Second @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46597	unsigned short	**V_SAG_DURATION_N_3**	Voltage Sag Duration [ms] @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46598	unsigned short	**V_SAG_QUERY_N_3**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46599	float	**V_SAG_OLD_VALUE_N_3**	Voltage RMS Value before SAG event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46601	float	**I_SAG_NEW_VALUE_N_3**	Current RMS value during SAG event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46603	float	**I_SAG_OLD_VALUE_N_3**	Current RMS value before SAG event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

46605	float	**V_SAG_VALUE_N_4**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46607	unsigned short	**V_SAG_YEAR_N_4**	Voltage Sag Year @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46608	unsigned short	**V_SAG_MONTH_N_4**	Voltage Sag Month @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46609	unsigned short	**V_SAG_DAY_N_4**	Voltage Sag Day @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46610	unsigned short	**V_SAG_HOUR_N_4**	Voltage Sag Hour @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46611	unsigned short	**V_SAG_MINUTE_N_4**	Voltage Sag Minute @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46612	unsigned short	**V_SAG_SECOND_N_4**	Voltage Sag Second @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46613	unsigned short	**V_SAG_DURATION_N_4**	Voltage Sag Duration [ms] @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46614	unsigned short	**V_SAG_QUERY_N_4**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46615	float	**V_SAG_OLD_VALUE_N_4**	Voltage RMS Value before SAG event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46617	float	**I_SAG_NEW_VALUE_N_4**	Current RMS value during SAG event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46619	float	**I_SAG_OLD_VALUE_N_4**	Current RMS value before SAG event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46621	float	**V_SAG_VALUE_N_5**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46623	unsigned short	**V_SAG_YEAR_N_5**	Voltage Sag Year @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46624	unsigned short	**V_SAG_MONTH_N_5**	Voltage Sag Month @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46625	unsigned short	**V_SAG_DAY_N_5**	Voltage Sag Day @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL

46626	unsigned short	**V_SAG_HOUR_N_5**	Voltage Sag Hour @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46627	unsigned short	**V_SAG_MINUTE_N_5**	Voltage Sag Minute @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46628	unsigned short	**V_SAG_SECOND_N_5**	Voltage Sag Second @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46629	unsigned short	**V_SAG_DURATION_N_5**	Voltage Sag Duration [ms] @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46630	unsigned short	**V_SAG_QUERY_N_5**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46631	float	**V_SAG_OLD_VALUE_N_5**	Voltage RMS Value before SAG event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46633	float	**I_SAG_NEW_VALUE_N_5**	Current RMS value during SAG event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46635	float	**I_SAG_OLD_VALUE_N_5**	Current RMS value before SAG event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46637	float	**V_SAG_VALUE_N_6**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46639	unsigned short	**V_SAG_YEAR_N_6**	Voltage Sag Year @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46640	unsigned short	**V_SAG_MONTH_N_6**	Voltage Sag Month @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46641	unsigned short	**V_SAG_DAY_N_6**	Voltage Sag Day @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46642	unsigned short	**V_SAG_HOUR_N_6**	Voltage Sag Hour @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46643	unsigned short	**V_SAG_MINUTE_N_6**	Voltage Sag Minute @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46644	unsigned short	**V_SAG_SECOND_N_6**	Voltage Sag Second @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46645	unsigned short	**V_SAG_DURATION_N_6**	Voltage Sag Duration [ms] @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL

46646	unsigned short	**V_SAG_QUERY_N_6**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46647	float	**V_SAG_OLD_VALUE_N_6**	Voltage RMS Value before SAG event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46649	float	**I_SAG_NEW_VALUE_N_6**	Current RMS value during SAG event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46651	float	**I_SAG_OLD_VALUE_N_6**	Current RMS value before SAG event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46653	float	**V_SAG_VALUE_N_7**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46655	unsigned short	**V_SAG_YEAR_N_7**	Voltage Sag Year @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46656	unsigned short	**V_SAG_MONTH_N_7**	Voltage Sag Month @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46657	unsigned short	**V_SAG_DAY_N_7**	Voltage Sag Day @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46658	unsigned short	**V_SAG_HOUR_N_7**	Voltage Sag Hour @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46659	unsigned short	**V_SAG_MINUTE_N_7**	Voltage Sag Minute @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46660	unsigned short	**V_SAG_SECOND_N_7**	Voltage Sag Second @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46661	unsigned short	**V_SAG_DURATION_N_7**	Voltage Sag Duration [ms] @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46662	unsigned short	**V_SAG_QUERY_N_7**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46663	float	**V_SAG_OLD_VALUE_N_7**	Voltage RMS Value before SAG event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

46665	float	**I_SAG_NEW_VALUE_N_7**	Current RMS value during SAG event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46667	float	**I_SAG_OLD_VALUE_N_7**	Current RMS value before SAG event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46669	float	**V_SAG_VALUE_N_8**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46671	unsigned short	**V_SAG_YEAR_N_8**	Voltage Sag Year @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46672	unsigned short	**V_SAG_MONTH_N_8**	Voltage Sag Month @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46673	unsigned short	**V_SAG_DAY_N_8**	Voltage Sag Day @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46674	unsigned short	**V_SAG_HOUR_N_8**	Voltage Sag Hour @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46675	unsigned short	**V_SAG_MINUTE_N_8**	Voltage Sag Minute @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46676	unsigned short	**V_SAG_SECOND_N_8**	Voltage Sag Second @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46677	unsigned short	**V_SAG_DURATION_N_8**	Voltage Sag Duration [ms] @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46678	unsigned short	**V_SAG_QUERY_N_8**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46679	float	**V_SAG_OLD_VALUE_N_8**	Voltage RMS Value before SAG event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46681	float	**I_SAG_NEW_VALUE_N_8**	Current RMS value during SAG event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46683	float	**I_SAG_OLD_VALUE_N_8**	Current RMS value before SAG event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

46685	float	**V_SAG_VALUE_N_9**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46687	unsigned short	**V_SAG_YEAR_N_9**	Voltage Sag Year @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46688	unsigned short	**V_SAG_MONTH_N_9**	Voltage Sag Month @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46689	unsigned short	**V_SAG_DAY_N_9**	Voltage Sag Day @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46690	unsigned short	**V_SAG_HOUR_N_9**	Voltage Sag Hour @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46691	unsigned short	**V_SAG_MINUTE_N_9**	Voltage Sag Minute @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46692	unsigned short	**V_SAG_SECOND_N_9**	Voltage Sag Second @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46693	unsigned short	**V_SAG_DURATION_N_9**	Voltage Sag Duration [ms] @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46694	unsigned short	**V_SAG_QUERY_N_9**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46695	float	**V_SAG_OLD_VALUE_N_9**	Voltage RMS Value before SAG event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46697	float	**I_SAG_NEW_VALUE_N_9**	Current RMS value during SAG event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46699	float	**I_SAG_OLD_VALUE_N_9**	Current RMS value before SAG event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46701	float	**V_SAG_VALUE_EEPROM**	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46703	unsigned short	**V_SAG_YEAR_EEPROM**	Voltage Sag Year EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46704	unsigned short	**V_SAG_MONTH_EEPROM**	Voltage Sag Month EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46705	unsigned short	**V_SAG_DAY_EEPROM**	Voltage Sag Day EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL

46706	unsigned short	**V_SAG_HOUR_EEPROM**	Voltage Sag Hour EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46707	unsigned short	**V_SAG_MINUTE_EEPROM**	Voltage Sag Minute EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46708	unsigned short	**V_SAG_SECOND_EEPROM**	Voltage Sag Second EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46709	unsigned short	**V_SAG_DURATION_EEPROM**	Voltage Sag Duration [ms] EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46710	unsigned short	**V_SAG_QUERY_EEPROM**	// Voltage Sag Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46711	float	**V_SAG_OLD_VALUE_EEPROM**	Voltage RMS Value before SAG event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46713	float	**I_SAG_NEW_VALUE_EEPROM**	Current RMS value during SAG event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46715	float	**I_SAG_OLD_VALUE_EEPROM**	Current RMS value before SAG event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46717	float	**V_SWELL_VALUE_N_0**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46719	unsigned short	**V_SWELL_YEAR_N_0**	Voltage Swell Year @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46720	unsigned short	**V_SWELL_MONTH_N_0**	Voltage Swell Month @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46721	unsigned short	**V_SWELL_DAY_N_0**	Voltage Swell Day @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46722	unsigned short	**V_SWELL_HOUR_N_0**	Voltage Swell Hour @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46723	unsigned short	**V_SWELL_MINUTE_N_0**	Voltage Swell Minute @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46724	unsigned short	**V_SWELL_SECOND_N_0**	Voltage Swell Second @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46725	unsigned short	**V_SWELL_DURATION_N_0**	Voltage Swell Duration [ms] @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL

46726	unsigned short	**V_SWELL_QUERY_N_0**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46727	float	**V_SWELL_OLD_VALUE_N_0**	Voltage RMS Value before SWELL event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46729	float	**I_SWELL_NEW_VALUE_N_0**	Current RMS value during SWELL event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46731	float	**I_SWELL_OLD_VALUE_N_0**	Current RMS value before SWELL event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46733	float	**V_SWELL_VALUE_N_1**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46735	unsigned short	**V_SWELL_YEAR_N_1**	Voltage Swell Year @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46736	unsigned short	**V_SWELL_MONTH_N_1**	Voltage Swell Month @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46737	unsigned short	**V_SWELL_DAY_N_1**	Voltage Swell Day @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46738	unsigned short	**V_SWELL_HOUR_N_1**	Voltage Swell Hour @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46739	unsigned short	**V_SWELL_MINUTE_N_1**	Voltage Swell Minute @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46740	unsigned short	**V_SWELL_SECOND_N_1**	Voltage Swell Second @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46741	unsigned short	**V_SWELL_DURATION_N_1**	Voltage Swell Duration [ms] @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46742	unsigned short	**V_SWELL_QUERY_N_1**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46743	float	**V_SWELL_OLD_VALUE_N_1**	Voltage RMS Value before SWELL event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

46745	float	**I_SWELL_NEW_VALUE_N_1**	Current RMS value during SWELL event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46747	float	**I_SWELL_OLD_VALUE_N_1**	Current RMS value before SWELL event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46749	float	**V_SWELL_VALUE_N_2**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46751	unsigned short	**V_SWELL_YEAR_N_2**	Voltage Swell Year @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46752	unsigned short	**V_SWELL_MONTH_N_2**	Voltage Swell Month @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46753	unsigned short	**V_SWELL_DAY_N_2**	Voltage Swell Day @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46754	unsigned short	**V_SWELL_HOUR_N_2**	Voltage Swell Hour @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46755	unsigned short	**V_SWELL_MINUTE_N_2**	Voltage Swell Minute @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46756	unsigned short	**V_SWELL_SECOND_N_2**	Voltage Swell Second @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46757	unsigned short	**V_SWELL_DURATION_N_2**	Voltage Swell Duration [ms] @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46758	unsigned short	**V_SWELL_QUERY_N_2**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46759	float	**V_SWELL_OLD_VALUE_N_2**	Voltage RMS Value before SWELL event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46761	float	**I_SWELL_NEW_VALUE_N_2**	Current RMS value during SWELL event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46763	float	**I_SWELL_OLD_VALUE_N_2**	Current RMS value before SWELL event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

46765	float	**V_SWELL_VALUE_N_3**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46767	unsigned short	**V_SWELL_YEAR_N_3**	Voltage Swell Year @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46768	unsigned short	**V_SWELL_MONTH_N_3**	Voltage Swell Month @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46769	unsigned short	**V_SWELL_DAY_N_3**	Voltage Swell Day @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46770	unsigned short	**V_SWELL_HOUR_N_3**	Voltage Swell Hour @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46771	unsigned short	**V_SWELL_MINUTE_N_3**	Voltage Swell Minute @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46772	unsigned short	**V_SWELL_SECOND_N_3**	Voltage Swell Second @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46773	unsigned short	**V_SWELL_DURATION_N_3**	Voltage Swell Duration [ms] @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46774	unsigned short	**V_SWELL_QUERY_N_3**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46775	float	**V_SWELL_OLD_VALUE_N_3**	Voltage RMS Value before SWELL event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46777	float	**I_SWELL_NEW_VALUE_N_3**	Current RMS value during SWELL event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46779	float	**I_SWELL_OLD_VALUE_N_3**	Current RMS value before SWELL event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46781	float	**V_SWELL_VALUE_N_4**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46783	unsigned short	**V_SWELL_YEAR_N_4**	Voltage Swell Year @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46784	unsigned short	**V_SWELL_MONTH_N_4**	Voltage Swell Month @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46785	unsigned short	**V_SWELL_DAY_N_4**	Voltage Swell Day @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL

46786	unsigned short	**V_SWELL_HOUR_N_4**	Voltage Swell Hour @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46787	unsigned short	**V_SWELL_MINUTE_N_4**	Voltage Swell Minute @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46788	unsigned short	**V_SWELL_SECOND_N_4**	Voltage Swell Second @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46789	unsigned short	**V_SWELL_DURATION_N_4**	Voltage Swell Duration [ms] @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46790	unsigned short	**V_SWELL_QUERY_N_4**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46791	float	**V_SWELL_OLD_VALUE_N_4**	Voltage RMS Value before SWELL event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46793	float	**I_SWELL_NEW_VALUE_N_4**	Current RMS value during SWELL event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46795	float	**I_SWELL_OLD_VALUE_N_4**	Current RMS value before SWELL event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46797	float	**V_SWELL_VALUE_N_5**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46799	unsigned short	**V_SWELL_YEAR_N_5**	Voltage Swell Year @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46800	unsigned short	**V_SWELL_MONTH_N_5**	Voltage Swell Month @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46801	unsigned short	**V_SWELL_DAY_N_5**	Voltage Swell Day @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46802	unsigned short	**V_SWELL_HOUR_N_5**	Voltage Swell Hour @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46803	unsigned short	**V_SWELL_MINUTE_N_5**	Voltage Swell Minute @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46804	unsigned short	**V_SWELL_SECOND_N_5**	Voltage Swell Second @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46805	unsigned short	**V_SWELL_DURATION_N_5**	Voltage Swell Duration [ms] @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL

46806	unsigned short	**V_SWELL_QUERY_N_5**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46807	float	**V_SWELL_OLD_VALUE_N_5**	Voltage RMS Value before SWELL event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46809	float	**I_SWELL_NEW_VALUE_N_5**	Current RMS value during SWELL event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46811	float	**I_SWELL_OLD_VALUE_N_5**	Current RMS value before SWELL event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46813	float	**V_SWELL_VALUE_N_6**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46815	unsigned short	**V_SWELL_YEAR_N_6**	Voltage Swell Year @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46816	unsigned short	**V_SWELL_MONTH_N_6**	Voltage Swell Month @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46817	unsigned short	**V_SWELL_DAY_N_6**	Voltage Swell Day @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46818	unsigned short	**V_SWELL_HOUR_N_6**	Voltage Swell Hour @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46819	unsigned short	**V_SWELL_MINUTE_N_6**	Voltage Swell Minute @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46820	unsigned short	**V_SWELL_SECOND_N_6**	Voltage Swell Second @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46821	unsigned short	**V_SWELL_DURATION_N_6**	Voltage Swell Duration [ms] @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46822	unsigned short	**V_SWELL_QUERY_N_6**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46823	float	**V_SWELL_OLD_VALUE_N_6**	Voltage RMS Value before SWELL event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

46825	float	**I_SWELL_NEW_VALUE_N_6**	Current RMS value during SWELL event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46827	float	**I_SWELL_OLD_VALUE_N_6**	Current RMS value before SWELL event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46829	float	**V_SWELL_VALUE_N_7**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46831	unsigned short	**V_SWELL_YEAR_N_7**	Voltage Swell Year @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46832	unsigned short	**V_SWELL_MONTH_N_7**	Voltage Swell Month @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46833	unsigned short	**V_SWELL_DAY_N_7**	Voltage Swell Day @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46834	unsigned short	**V_SWELL_HOUR_N_7**	Voltage Swell Hour @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46835	unsigned short	**V_SWELL_MINUTE_N_7**	Voltage Swell Minute @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46836	unsigned short	**V_SWELL_SECOND_N_7**	Voltage Swell Second @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46837	unsigned short	**V_SWELL_DURATION_N_7**	Voltage Swell Duration [ms] @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
46838	unsigned short	**V_SWELL_QUERY_N_7**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46839	float	**V_SWELL_OLD_VALUE_N_7**	Voltage RMS Value before SWELL event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46841	float	**I_SWELL_NEW_VALUE_N_7**	Current RMS value during SWELL event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46843	float	**I_SWELL_OLD_VALUE_N_7**	Current RMS value before SWELL event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

46845	float	**V_SWELL_VALUE_N_8**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46847	unsigned short	**V_SWELL_YEAR_N_8**	Voltage Swell Year @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46848	unsigned short	**V_SWELL_MONTH_N_8**	Voltage Swell Month @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46849	unsigned short	**V_SWELL_DAY_N_8**	Voltage Swell Day @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46850	unsigned short	**V_SWELL_HOUR_N_8**	Voltage Swell Hour @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46851	unsigned short	**V_SWELL_MINUTE_N_8**	Voltage Swell Minute @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46852	unsigned short	**V_SWELL_SECOND_N_8**	Voltage Swell Second @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46853	unsigned short	**V_SWELL_DURATION_N_8**	Voltage Swell Duration [ms] @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
46854	unsigned short	**V_SWELL_QUERY_N_8**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46855	float	**V_SWELL_OLD_VALUE_N_8**	Voltage RMS Value before SWELL event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46857	float	**I_SWELL_NEW_VALUE_N_8**	Current RMS value during SWELL event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46859	float	**I_SWELL_OLD_VALUE_N_8**	Current RMS value before SWELL event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46861	float	**V_SWELL_VALUE_N_9**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46863	unsigned short	**V_SWELL_YEAR_N_9**	Voltage Swell Year @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46864	unsigned short	**V_SWELL_MONTH_N_9**	Voltage Swell Month @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46865	unsigned short	**V_SWELL_DAY_N_9**	Voltage Swell Day @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL

46866	unsigned short	**V_SWELL_HOUR_N_9**	Voltage Swell Hour @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46867	unsigned short	**V_SWELL_MINUTE_N_9**	Voltage Swell Minute @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46868	unsigned short	**V_SWELL_SECOND_N_9**	Voltage Swell Second @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46869	unsigned short	**V_SWELL_DURATION_N_9**	Voltage Swell Duration [ms] @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
46870	unsigned short	**V_SWELL_QUERY_N_9**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46871	float	**V_SWELL_OLD_VALUE_N_9**	Voltage RMS Value before SWELL event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46873	float	**I_SWELL_NEW_VALUE_N_9**	Current RMS value during SWELL event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46875	float	**I_SWELL_OLD_VALUE_N_9**	Current RMS value before SWELL event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46877	float	**V_SWELL_VALUE_EEPROM**	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46879	unsigned short	**V_SWELL_YEAR_EEPROM**	Voltage Swell Year EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46880	unsigned short	**V_SWELL_MONTH_EEPROM**	Voltage Swell Month EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46881	unsigned short	**V_SWELL_DAY_EEPROM**	Voltage Swell Day EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46882	unsigned short	**V_SWELL_HOUR_EEPROM**	Voltage Swell Hour EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46883	unsigned short	**V_SWELL_MINUTE_EEPROM**	Voltage Swell Minute EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46884	unsigned short	**V_SWELL_SECOND_EEPROM**	Voltage Swell Second EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
46885	unsigned short	**V_SWELL_DURATION_EEPROM**	Voltage Swell Duration [ms] EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL

46886	unsigned short	**V_SWELL_QUERY_EEPROM**	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46887	float	**V_SWELL_OLD_VALUE_EEPROM**	Voltage RMS Value before SWELL event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46889	float	**I_SWELL_NEW_VALUE_EEPROM**	Current RMS value during SWELL event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46891	float	**I_SWELL_OLD_VALUE_EEPROM**	Current RMS value before SWELL event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46893	float	**V_INTERRUPTION_VALUE_N_0**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46895	unsigned short	**V_INTERRUPTION_YEAR_N_0**	Voltage Interruption Year @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46896	unsigned short	**V_INTERRUPTION_MONTH_N_0**	Voltage Interruption Month @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46897	unsigned short	**V_INTERRUPTION_DAY_N_0**	Voltage Interruption Day @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46898	unsigned short	**V_INTERRUPTION_HOUR_N_0**	Voltage Interruption Hour @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46899	unsigned short	**V_INTERRUPTION_MINUTE_N_0**	Voltage Interruption Minute @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46900	unsigned short	**V_INTERRUPTION_SECOND_N_0**	Voltage Interruption Second @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46901	unsigned short	**V_INTERRUPTION_DURATION_N_0**	Voltage Interruption Duration [ms] @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46902	unsigned short	**V_INTERRUPTION_QUERY_N_0**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46903	float	**V_INTERRUPTION_OLD_VALUE_N_0**	Voltage RMS Value before INTERRUPTION event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

46905	float	**I_INTERRUPTION_NEW_VALUE_N_0**	Current RMS value during INTERRUPTION event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46907	float	**I_INTERRUPTION_OLD_VALUE_N_0**	Current RMS value before INTERRUPTION event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46909	float	**V_INTERRUPTION_VALUE_N_1**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46911	unsigned short	**V_INTERRUPTION_YEAR_N_1**	Voltage Interruption Year @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46912	unsigned short	**V_INTERRUPTION_MONTH_N_1**	Voltage Interruption Month @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46913	unsigned short	**V_INTERRUPTION_DAY_N_1**	Voltage Interruption Day @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46914	unsigned short	**V_INTERRUPTION_HOUR_N_1**	Voltage Interruption Hour @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46915	unsigned short	**V_INTERRUPTION_MINUTE_N_1**	Voltage Interruption Minute @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46916	unsigned short	**V_INTERRUPTION_SECOND_N_1**	Voltage Interruption Second @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46917	unsigned short	**V_INTERRUPTION_DURATION_N_1**	Voltage Interruption Duration [ms] @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
46918	unsigned short	**V_INTERRUPTION_QUERY_N_1**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46919	float	**V_INTERRUPTION_OLD_VALUE_N_1**	Voltage RMS Value before INTERRUPTION event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46921	float	**I_INTERRUPTION_NEW_VALUE_N_1**	Current RMS value during INTERRUPTION event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46923	float	**I_INTERRUPTION_OLD_VALUE_N_1**	Current RMS value before INTERRUPTION event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

46925	float	**V_INTERRUPTION_VALUE_N_2**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46927	unsigned short	**V_INTERRUPTION_YEAR_N_2**	Voltage Interruption Year @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46928	unsigned short	**V_INTERRUPTION_MONTH_N_2**	Voltage Interruption Month @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46929	unsigned short	**V_INTERRUPTION_DAY_N_2**	Voltage Interruption Day @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46930	unsigned short	**V_INTERRUPTION_HOUR_N_2**	Voltage Interruption Hour @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46931	unsigned short	**V_INTERRUPTION_MINUTE_N_2**	Voltage Interruption Minute @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46932	unsigned short	**V_INTERRUPTION_SECOND_N_2**	Voltage Interruption Second @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46933	unsigned short	**V_INTERRUPTION_DURATION_N_2**	Voltage Interruption Duration [ms] @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46934	unsigned short	**V_INTERRUPTION_QUERY_N_2**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46935	float	**V_INTERRUPTION_OLD_VALUE_N_2**	Voltage RMS Value before INTERRUPTION event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46937	float	**I_INTERRUPTION_NEW_VALUE_N_2**	Current RMS value during INTERRUPTION event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46939	float	**I_INTERRUPTION_OLD_VALUE_N_2**	Current RMS value before INTERRUPTION event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46941	float	**V_INTERRUPTION_VALUE_N_3**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46943	unsigned short	**V_INTERRUPTION_YEAR_N_3**	Voltage Interruption Year @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46944	unsigned short	**V_INTERRUPTION_MONTH_N_3**	Voltage Interruption Month @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46945	unsigned short	**V_INTERRUPTION_DAY_N_3**	Voltage Interruption Day @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL

46946	unsigned short	**V_INTERRUPTION_HOUR_N_3**	Voltage Interruption Hour @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46947	unsigned short	**V_INTERRUPTION_MINUTE_N_3**	Voltage Interruption Minute @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46948	unsigned short	**V_INTERRUPTION_SECOND_N_3**	Voltage Interruption Second @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46949	unsigned short	**V_INTERRUPTION_DURATION_N_3**	Voltage Interruption Duration [ms] @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46950	unsigned short	**V_INTERRUPTION_QUERY_N_3**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46951	float	**V_INTERRUPTION_OLD_VALUE_N_3**	Voltage RMS Value before INTERRUPTION event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46953	float	**I_INTERRUPTION_NEW_VALUE_N_3**	Current RMS value during INTERRUPTION event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46955	float	**I_INTERRUPTION_OLD_VALUE_N_3**	Current RMS value before INTERRUPTION event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46957	float	**V_INTERRUPTION_VALUE_N_4**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46959	unsigned short	**V_INTERRUPTION_YEAR_N_4**	Voltage Interruption Year @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46960	unsigned short	**V_INTERRUPTION_MONTH_N_4**	Voltage Interruption Month @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46961	unsigned short	**V_INTERRUPTION_DAY_N_4**	Voltage Interruption Day @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46962	unsigned short	**V_INTERRUPTION_HOUR_N_4**	Voltage Interruption Hour @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46963	unsigned short	**V_INTERRUPTION_MINUTE_N_4**	Voltage Interruption Minute @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46964	unsigned short	**V_INTERRUPTION_SECOND_N_4**	Voltage Interruption Second @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46965	unsigned short	**V_INTERRUPTION_DURATION_N_4**	Voltage Interruption Duration [ms] @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL

46966	unsigned short	**V_INTERRUPTION_QUERY_N_4**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46967	float	**V_INTERRUPTION_OLD_VALUE_N_4**	Voltage RMS Value before INTERRUPTION event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46969	float	**I_INTERRUPTION_NEW_VALUE_N_4**	Current RMS value during INTERRUPTION event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46971	float	**I_INTERRUPTION_OLD_VALUE_N_4**	Current RMS value before INTERRUPTION event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46973	float	**V_INTERRUPTION_VALUE_N_5**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46975	unsigned short	**V_INTERRUPTION_YEAR_N_5**	Voltage Interruption Year @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46976	unsigned short	**V_INTERRUPTION_MONTH_N_5**	Voltage Interruption Month @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46977	unsigned short	**V_INTERRUPTION_DAY_N_5**	Voltage Interruption Day @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46978	unsigned short	**V_INTERRUPTION_HOUR_N_5**	Voltage Interruption Hour @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46979	unsigned short	**V_INTERRUPTION_MINUTE_N_5**	Voltage Interruption Minute @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46980	unsigned short	**V_INTERRUPTION_SECOND_N_5**	Voltage Interruption Second @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46981	unsigned short	**V_INTERRUPTION_DURATION_N_5**	Voltage Interruption Duration [ms] @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46982	unsigned short	**V_INTERRUPTION_QUERY_N_5**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL

46983	float	**V_INTERRUPTION_OLD_VALUE_N_5**	Voltage RMS Value before INTERRUPTION event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46985	float	**I_INTERRUPTION_NEW_VALUE_N_5**	Current RMS value during INTERRUPTION event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46987	float	**I_INTERRUPTION_OLD_VALUE_N_5**	Current RMS value before INTERRUPTION event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46989	float	**V_INTERRUPTION_VALUE_N_6**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
46991	unsigned short	**V_INTERRUPTION_YEAR_N_6**	Voltage Interruption Year @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46992	unsigned short	**V_INTERRUPTION_MONTH_N_6**	Voltage Interruption Month @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46993	unsigned short	**V_INTERRUPTION_DAY_N_6**	Voltage Interruption Day @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46994	unsigned short	**V_INTERRUPTION_HOUR_N_6**	Voltage Interruption Hour @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46995	unsigned short	**V_INTERRUPTION_MINUTE_N_6**	Voltage Interruption Minute @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46996	unsigned short	**V_INTERRUPTION_SECOND_N_6**	Voltage Interruption Second @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46997	unsigned short	**V_INTERRUPTION_DURATION_N_6**	Voltage Interruption Duration [ms] @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46998	unsigned short	**V_INTERRUPTION_QUERY_N_6**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
46999	float	**V_INTERRUPTION_OLD_VALUE_N_6**	Voltage RMS Value before INTERRUPTION event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47001	float	**I_INTERRUPTION_NEW_VALUE_N_6**	Current RMS value during INTERRUPTION event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

47003	float	**I_INTERRUPTION_OLD_VALUE_N_6**	Current RMS value before INTERRUPTION event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47005	float	**V_INTERRUPTION_VALUE_N_7**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47007	unsigned short	**V_INTERRUPTION_YEAR_N_7**	Voltage Interruption Year @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47008	unsigned short	**V_INTERRUPTION_MONTH_N_7**	Voltage Interruption Month @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47009	unsigned short	**V_INTERRUPTION_DAY_N_7**	Voltage Interruption Day @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47010	unsigned short	**V_INTERRUPTION_HOUR_N_7**	Voltage Interruption Hour @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47011	unsigned short	**V_INTERRUPTION_MINUTE_N_7**	Voltage Interruption Minute @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47012	unsigned short	**V_INTERRUPTION_SECOND_N_7**	Voltage Interruption Second @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47013	unsigned short	**V_INTERRUPTION_DURATION_N_7**	Voltage Interruption Duration [ms] @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47014	unsigned short	**V_INTERRUPTION_QUERY_N_7**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47015	float	**V_INTERRUPTION_OLD_VALUE_N_7**	Voltage RMS Value before INTERRUPTION event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47017	float	**I_INTERRUPTION_NEW_VALUE_N_7**	Current RMS value during INTERRUPTION event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47019	float	**I_INTERRUPTION_OLD_VALUE_N_7**	Current RMS value before INTERRUPTION event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47021	float	**V_INTERRUPTION_VALUE_N_8**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

47023	unsigned short	**V_INTERRUPTION_YEAR_N_8**	Voltage Interruption Year @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47024	unsigned short	**V_INTERRUPTION_MONTH_N_8**	Voltage Interruption Month @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47025	unsigned short	**V_INTERRUPTION_DAY_N_8**	Voltage Interruption Day @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47026	unsigned short	**V_INTERRUPTION_HOUR_N_8**	Voltage Interruption Hour @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47027	unsigned short	**V_INTERRUPTION_MINUTE_N_8**	Voltage Interruption Minute @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47028	unsigned short	**V_INTERRUPTION_SECOND_N_8**	Voltage Interruption Second @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47029	unsigned short	**V_INTERRUPTION_DURATION_N_8**	Voltage Interruption Duration [ms] @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47030	unsigned short	**V_INTERRUPTION_QUERY_N_8**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47031	float	**V_INTERRUPTION_OLD_VALUE_N_8**	Voltage RMS Value before INTERRUPTION event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47033	float	**I_INTERRUPTION_NEW_VALUE_N_8**	Current RMS value during INTERRUPTION event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47035	float	**I_INTERRUPTION_OLD_VALUE_N_8**	Current RMS value before INTERRUPTION event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47037	float	**V_INTERRUPTION_VALUE_N_9**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47039	unsigned short	**V_INTERRUPTION_YEAR_N_9**	Voltage Interruption Year @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47040	unsigned short	**V_INTERRUPTION_MONTH_N_9**	Voltage Interruption Month @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47041	unsigned short	**V_INTERRUPTION_DAY_N_9**	Voltage Interruption Day @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47042	unsigned short	**V_INTERRUPTION_HOUR_N_9**	Voltage Interruption Hour @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47043	unsigned short	**V_INTERRUPTION_MINUTE_N_9**	Voltage Interruption Minute @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL

47044	unsigned short	**V_INTERRUPTION_SECOND_N_9**	Voltage Interruption Second @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47045	unsigned short	**V_INTERRUPTION_DURATION_N_9**	Voltage Interruption Duration [ms] @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47046	unsigned short	**V_INTERRUPTION_QUERY_N_9**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47047	float	**V_INTERRUPTION_OLD_VALUE_N_9**	Voltage RMS Value before INTERRUPTION event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47049	float	**I_INTERRUPTION_NEW_VALUE_N_9**	Current RMS value during INTERRUPTION event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47051	float	**I_INTERRUPTION_OLD_VALUE_N_9**	Current RMS value before INTERRUPTION event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47053	float	**V_INTERRUPTION_VALUE_EEPROM**	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47055	unsigned short	**V_INTERRUPTION_YEAR_EEPROM**	Voltage Interruption Year EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47056	unsigned short	**V_INTERRUPTION_MONTH_EEPROM**	Voltage Interruption Month EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47057	unsigned short	**V_INTERRUPTION_DAY_EEPROM**	Voltage Interruption Day EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47058	unsigned short	**V_INTERRUPTION_HOUR_EEPROM**	Voltage Interruption Hour EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47059	unsigned short	**V_INTERRUPTION_MINUTE_EEPROM**	Voltage Interruption Minute EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47060	unsigned short	**V_INTERRUPTION_SECOND_EEPROM**	Voltage Interruption Second EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47061	unsigned short	**V_INTERRUPTION_DURATION_EEPROM**	Voltage Interruption Duration [ms] EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL

47062	unsigned short	**V_INTERRUPTION_QUERY_EEPROM**	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47063	float	**V_INTERRUPTION_OLD_VALUE_EEPROM**	Voltage RMS Value before INTERRUPTION event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47065	float	**I_INTERRUPTION_NEW_VALUE_EEPROM**	Current RMS value during INTERRUPTION event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47067	float	**I_INTERRUPTION_OLD_VALUE_EEPROM**	Current RMS value before INTERRUPTION event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47069	float	**V_FLICKER_VALUE_N_0**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47071	unsigned short	**V_FLICKER_YEAR_N_0**	Voltage Flicker Year @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47072	unsigned short	**V_FLICKER_MONTH_N_0**	Voltage Flicker Month @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47073	unsigned short	**V_FLICKER_DAY_N_0**	Voltage Flicker Day @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47074	unsigned short	**V_FLICKER_HOUR_N_0**	Voltage Flicker Hour @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47075	unsigned short	**V_FLICKER_MINUTE_N_0**	Voltage Flicker Minute @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47076	unsigned short	**V_FLICKER_SECOND_N_0**	Voltage Flicker Second @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47077	unsigned short	**V_FLICKER_REPETITION_N_0**	Voltage Flicker Repetition [ms] @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47078	unsigned short	**V_FLICKER_QUERY_N_0**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47079	float	**V_FLICKER_OLD_VALUE_N_0**	Voltage RMS Value before FLICKER event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

47081	float	**I_FLICKER_NEW_VALUE_N_0**	Current RMS value during FLICKER event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47083	float	**I_FLICKER_OLD_VALUE_N_0**	Current RMS value before FLICKER event @ n-0	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47085	float	**V_FLICKER_VALUE_N_1**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47087	unsigned short	**V_FLICKER_YEAR_N_1**	Voltage Flicker Year @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
47088	unsigned short	**V_FLICKER_MONTH_N_1**	Voltage Flicker Month @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
47089	unsigned short	**V_FLICKER_DAY_N_1**	Voltage Flicker Day @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
47090	unsigned short	**V_FLICKER_HOUR_N_1**	Voltage Flicker Hour @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
47091	unsigned short	**V_FLICKER_MINUTE_N_1**	Voltage Flicker Minute @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
47092	unsigned short	**V_FLICKER_SECOND_N_1**	Voltage Flicker Second @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
47093	unsigned short	**V_FLICKER_REPETITION_N_1**	Voltage Flicker Repetition [ms] @ n-1	0	ALWAYS	NEVER	0 – 65535	FULL
47094	unsigned short	**V_FLICKER_QUERY_N_1**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47095	float	**V_FLICKER_OLD_VALUE_N_1**	Voltage RMS Value before FLICKER event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47097	float	**I_FLICKER_NEW_VALUE_N_1**	Current RMS value during FLICKER event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47099	float	**I_FLICKER_OLD_VALUE_N_1**	Current RMS value before FLICKER event @ n-1	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

47101	float	**V_FLICKER_VALUE_N_2**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47103	unsigned short	**V_FLICKER_YEAR_N_2**	Voltage Flicker Year @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
47104	unsigned short	**V_FLICKER_MONTH_N_2**	Voltage Flicker Month @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
47105	unsigned short	**V_FLICKER_DAY_N_2**	Voltage Flicker Day @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
47106	unsigned short	**V_FLICKER_HOUR_N_2**	Voltage Flicker Hour @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
47107	unsigned short	**V_FLICKER_MINUTE_N_2**	Voltage Flicker Minute @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
47108	unsigned short	**V_FLICKER_SECOND_N_2**	Voltage Flicker Second @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
47109	unsigned short	**V_FLICKER_REPETITION_N_2**	Voltage Flicker Repetition [ms] @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
47110	unsigned short	**V_FLICKER_QUERY_N_2**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47111	float	**V_FLICKER_OLD_VALUE_N_2**	Voltage RMS Value before FLICKER event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47113	float	**I_FLICKER_NEW_VALUE_N_2**	Current RMS value during FLICKER event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47115	float	**I_FLICKER_OLD_VALUE_N_2**	Current RMS value before FLICKER event @ n-2	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47117	float	**V_FLICKER_VALUE_N_3**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47119	unsigned short	**V_FLICKER_YEAR_N_3**	Voltage Flicker Year @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
47120	unsigned short	**V_FLICKER_MONTH_N_3**	Voltage Flicker Month @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
47121	unsigned short	**V_FLICKER_DAY_N_3**	Voltage Flicker Day @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL

47122	unsigned short	**V_FLICKER_HOUR_N_3**	Voltage Flicker Hour @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
47123	unsigned short	**V_FLICKER_MINUTE_N_3**	Voltage Flicker Minute @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
47124	unsigned short	**V_FLICKER_SECOND_N_3**	Voltage Flicker Second @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
47125	unsigned short	**V_FLICKER_REPETITION_N_3**	Voltage Flicker Repetition [ms] @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
47126	unsigned short	**V_FLICKER_QUERY_N_3**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47127	float	**V_FLICKER_OLD_VALUE_N_3**	Voltage RMS Value before FLICKER event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47129	float	**I_FLICKER_NEW_VALUE_N_3**	Current RMS value during FLICKER event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47131	float	**I_FLICKER_OLD_VALUE_N_3**	Current RMS value before FLICKER event @ n-3	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47133	float	**V_FLICKER_VALUE_N_4**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47135	unsigned short	**V_FLICKER_YEAR_N_4**	Voltage Flicker Year @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
47136	unsigned short	**V_FLICKER_MONTH_N_4**	Voltage Flicker Month @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
47137	unsigned short	**V_FLICKER_DAY_N_4**	Voltage Flicker Day @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
47138	unsigned short	**V_FLICKER_HOUR_N_4**	Voltage Flicker Hour @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
47139	unsigned short	**V_FLICKER_MINUTE_N_4**	Voltage Flicker Minute @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
47140	unsigned short	**V_FLICKER_SECOND_N_4**	Voltage Flicker Second @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
47141	unsigned short	**V_FLICKER_REPETITION_N_4**	Voltage Flicker Repetition [ms] @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL

47142	unsigned short	**V_FLICKER_QUERY_N_4**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47143	float	**V_FLICKER_OLD_VALUE_N_4**	Voltage RMS Value before FLICKER event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47145	float	**I_FLICKER_NEW_VALUE_N_4**	Current RMS value during FLICKER event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47147	float	**I_FLICKER_OLD_VALUE_N_4**	Current RMS value before FLICKER event @ n-4	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47149	float	**V_FLICKER_VALUE_N_5**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47151	unsigned short	**V_FLICKER_YEAR_N_5**	Voltage Flicker Year @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
47152	unsigned short	**V_FLICKER_MONTH_N_5**	Voltage Flicker Month @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
47153	unsigned short	**V_FLICKER_DAY_N_5**	Voltage Flicker Day @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
47154	unsigned short	**V_FLICKER_HOUR_N_5**	Voltage Flicker Hour @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
47155	unsigned short	**V_FLICKER_MINUTE_N_5**	Voltage Flicker Minute @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
47156	unsigned short	**V_FLICKER_SECOND_N_5**	Voltage Flicker Second @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
47157	unsigned short	**V_FLICKER_REPETITION_N_5**	Voltage Flicker Repetition [ms] @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
47158	unsigned short	**V_FLICKER_QUERY_N_5**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47159	float	**V_FLICKER_OLD_VALUE_N_5**	Voltage RMS Value before FLICKER event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

47161	float	**I_FLICKER_NEW_VALUE_N_5**	Current RMS value during FLICKER event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47163	float	**I_FLICKER_OLD_VALUE_N_5**	Current RMS value before FLICKER event @ n-5	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47165	float	**V_FLICKER_VALUE_N_6**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47167	unsigned short	**V_FLICKER_YEAR_N_6**	Voltage Flicker Year @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
47168	unsigned short	**V_FLICKER_MONTH_N_6**	Voltage Flicker Month @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
47169	unsigned short	**V_FLICKER_DAY_N_6**	Voltage Flicker Day @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
47170	unsigned short	**V_FLICKER_HOUR_N_6**	Voltage Flicker Hour @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
47171	unsigned short	**V_FLICKER_MINUTE_N_6**	Voltage Flicker Minute @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
47172	unsigned short	**V_FLICKER_SECOND_N_6**	Voltage Flicker Second @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
47173	unsigned short	**V_FLICKER_REPETITION_N_6**	Voltage Flicker Repetition [ms] @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
47174	unsigned short	**V_FLICKER_QUERY_N_6**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47175	float	**V_FLICKER_OLD_VALUE_N_6**	Voltage RMS Value before FLICKER event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47177	float	**I_FLICKER_NEW_VALUE_N_6**	Current RMS value during FLICKER event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47179	float	**I_FLICKER_OLD_VALUE_N_6**	Current RMS value before FLICKER event @ n-6	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

47181	float	**V_FLICKER_VALUE_N_7**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47183	unsigned short	**V_FLICKER_YEAR_N_7**	Voltage Flicker Year @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47184	unsigned short	**V_FLICKER_MONTH_N_7**	Voltage Flicker Month @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47185	unsigned short	**V_FLICKER_DAY_N_7**	Voltage Flicker Day @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47186	unsigned short	**V_FLICKER_HOUR_N_7**	Voltage Flicker Hour @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47187	unsigned short	**V_FLICKER_MINUTE_N_7**	Voltage Flicker Minute @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47188	unsigned short	**V_FLICKER_SECOND_N_7**	Voltage Flicker Second @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47189	unsigned short	**V_FLICKER_REPETITION_N_7**	Voltage Flicker Repetition [ms] @ n-7	0	ALWAYS	NEVER	0 – 65535	FULL
47190	unsigned short	**V_FLICKER_QUERY_N_7**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47191	float	**V_FLICKER_OLD_VALUE_N_7**	Voltage RMS Value before FLICKER event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47193	float	**I_FLICKER_NEW_VALUE_N_7**	Current RMS value during FLICKER event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47195	float	**I_FLICKER_OLD_VALUE_N_7**	Current RMS value before FLICKER event @ n-7	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47197	float	**V_FLICKER_VALUE_N_8**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47199	unsigned short	**V_FLICKER_YEAR_N_8**	Voltage Flicker Year @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47200	unsigned short	**V_FLICKER_MONTH_N_8**	Voltage Flicker Month @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47201	unsigned short	**V_FLICKER_DAY_N_8**	Voltage Flicker Day @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL

47202	unsigned short	**V_FLICKER_HOUR_N_8**	Voltage Flicker Hour @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47203	unsigned short	**V_FLICKER_MINUTE_N_8**	Voltage Flicker Minute @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47204	unsigned short	**V_FLICKER_SECOND_N_8**	Voltage Flicker Second @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47205	unsigned short	**V_FLICKER_REPETITION_N_8**	Voltage Flicker Repetition [ms] @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47206	unsigned short	**V_FLICKER_QUERY_N_8**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47207	float	**V_FLICKER_OLD_VALUE_N_8**	Voltage RMS Value before FLICKER event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47209	float	**I_FLICKER_NEW_VALUE_N_8**	Current RMS value during FLICKER event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47211	float	**I_FLICKER_OLD_VALUE_N_8**	Current RMS value before FLICKER event @ n-8	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47213	float	**V_FLICKER_VALUE_N_9**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47215	unsigned short	**V_FLICKER_YEAR_N_9**	Voltage Flicker Year @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47216	unsigned short	**V_FLICKER_MONTH_N_9**	Voltage Flicker Month @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47217	unsigned short	**V_FLICKER_DAY_N_9**	Voltage Flicker Day @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47218	unsigned short	**V_FLICKER_HOUR_N_9**	Voltage Flicker Hour @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47219	unsigned short	**V_FLICKER_MINUTE_N_9**	Voltage Flicker Minute @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47220	unsigned short	**V_FLICKER_SECOND_N_9**	Voltage Flicker Second @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47221	unsigned short	**V_FLICKER_REPETITION_N_9**	Voltage Flicker Repetition [ms] @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL

47222	unsigned short	**V_FLICKER_QUERY_N_9**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47223	float	**V_FLICKER_OLD_VALUE_N_9**	Voltage RMS Value before FLICKER event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47225	float	**I_FLICKER_NEW_VALUE_N_9**	Current RMS value during FLICKER event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47227	float	**I_FLICKER_OLD_VALUE_N_9**	Current RMS value before FLICKER event @ n-9	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47229	float	**V_FLICKER_VALUE_EEPROM**	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47231	unsigned short	**V_FLICKER_YEAR_EEPROM**	Voltage Flicker Year EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47232	unsigned short	**V_FLICKER_MONTH_EEPROM**	Voltage Flicker Month EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47233	unsigned short	**V_FLICKER_DAY_EEPROM**	Voltage Flicker Day EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47234	unsigned short	**V_FLICKER_HOUR_EEPROM**	Voltage Flicker Hour EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47235	unsigned short	**V_FLICKER_MINUTE_EEPROM**	Voltage Flicker Minute EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47236	unsigned short	**V_FLICKER_SECOND_EEPROM**	Voltage Flicker Second EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47237	unsigned short	**V_FLICKER_REPETITION_EEPROM**	Voltage Flicker Repetition [ms] EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47238	unsigned short	**V_FLICKER_QUERY_EEPROM**	// Voltage Flicker Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	0	ALWAYS	NEVER	0 – 65535	FULL
47239	float	**V_FLICKER_OLD_VALUE_EEPROM**	Voltage RMS Value before FLICKER event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

47241	float	**I_FLICKER_NEW_VALUE_EEPROM**	Current RMS value during FLICKER event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47243	float	**I_FLICKER_OLD_VALUE_EEPROM**	Current RMS value before FLICKER event EEPROM data	0	ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

3.8 Waveforms (oscilloscope)

Waveforms (oscilloscope)								
Register	**Type**	**Name**	**Description**	**Default**	**Read**	**Write**	**Min – Max**	**Ver.**
47245 – 47500	float × 128	**V_L1N_Oscilloscope_0 … V_L1N_Oscilloscope_127**	Star Voltage L1-N Sample #0 … Star Voltage L1-N Sample #127		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47501 – 47756	float × 128	**V_L2N_Oscilloscope_0 … V_L2N_Oscilloscope_127**	Star Voltage L2-N Sample #0 … Star Voltage L2-N Sample #127		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
47757 – 48012	float × 128	**V_L3N_Oscilloscope_0 … V_L3N_Oscilloscope_127**	Star Voltage L3-N Sample #0 … Star Voltage L3-N Sample #127		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
48013 – 48268	float × 128	**V_L12_Oscilloscope_0 … V_L12_Oscilloscope_127**	Line Voltage L1-L2 Sample #0 … Line Voltage L1-L2 Sample #127		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
48269 – 48524	float × 128	**V_L23_Oscilloscope_0 … V_L23_Oscilloscope_127**	Line Voltage L2-L3 Sample #0 … Line Voltage L2-L3 Sample #127		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
48525 – 48780	float × 128	**V_L31_Oscilloscope_0 … V_L31_Oscilloscope_127**	Line Voltage L3-L1 Sample #0 … Line Voltage L3-L1 Sample #127		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

48781 – 49036	float × 128	**I_L1_Oscilloscope_0 … I_L1_Oscilloscope_127**	Line Current L1 Sample #0 … Line Current L1 Sample #127		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
49037 – 49292	float × 128	**I_L2_Oscilloscope_0 … I_L2_Oscilloscope_127**	Line Current L2 Sample #0 … Line Current L2 Sample #127		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
49293 – 49548	float × 128	**I_L3_Oscilloscope_0 … I_L3_Oscilloscope_127**	Line Current L3 Sample #0 … Line Current L3 Sample #127		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL
49549 – 49804	float × 128	**I_N_Oscilloscope_0 … I_N_Oscilloscope_127**	Line Current N Sample #0 … Line Current N Sample #127		ALWAYS	NEVER	-3.4028235e+38 – 3.4028235e+38	FULL

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