



MAPPA DEI REGISTRI MODBUS

EMT130 · EMT132

Analizzatori di rete trifase · 1 modulo DIN

Italiano · Revisione 0



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1 INTRODUZIONE

Questo documento elenca i registri Modbus degli analizzatori EMT130, EMT132, accessibili via Modbus RTU sulla porta RS485 e via Modbus TCP su Wi-Fi. La mappa è comune a tutti i modelli della famiglia ed è generata dal foglio di riferimento usato anche per generare il firmware.

1.1 Versioni BASE e FULL

La colonna Ver. indica i registri disponibili in tutte le versioni (Tutte) e quelli della sola versione FULL (analisi armonica, qualità dell'energia, forme d'onda, logging e MQTT).

1.2 Serie di registri

Le serie di valori dello stesso tipo (ad esempio le 64 ampiezze armoniche di una fase o i 128 campioni di una forma d'onda) sono riportate in una sola riga, con il primo e l'ultimo registro della serie: l'elemento n si trova al registro iniziale più n volte il numero di registri del tipo.

1.3 Ruoli di lettura e scrittura

Le colonne Lettura e Scrittura indicano il livello minimo di accesso richiesto via Modbus: ALWAYS = sempre, NEVER = mai, WITH PASS = solo dopo lo sblocco con la password indicata.

2 TIPI DI DATO

I registri sono indicati con la numerazione Modbus classica degli holding register (40001 e successivi). Nella richiesta Modbus l'indirizzo da trasmettere è il numero del registro meno 40001 (ad esempio il registro 40001 corrisponde all'indirizzo 0).

Tipi di dato		
Tipo	Registri	Valori
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 MAPPA DEI REGISTRI

3.1 Informazioni sul dispositivo

Informazioni sul dispositivo								
Registro	Tipo	Nome	Descrizione	Default	Lettura	Scrittura	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	Tutte
40009	unsigned short	hw_version	Hardware version, set by Chronos.	1	ALWAYS	WITH PASS C	0 – 65535	Tutte
40010	unsigned short	fw_version	Firmware version, set by Chronos.	1	ALWAYS	WITH PASS C	0 – 65535	Tutte
40011	unsigned short	mounted_version	0 -> 5A 1 -> Rogowski, 333 mV	0	ALWAYS	WITH PASS C	0 – 1	Tutte
40012	unsigned short	year_month	calibration year and month	6153	ALWAYS	WITH PASS C	0 – 65535	Tutte
40013	unsigned short	day_Hour	calibration day and hour	6671	ALWAYS	WITH PASS C	0 – 65535	Tutte
40014	unsigned short	minute_second	calibration minute and second	9517	ALWAYS	WITH PASS C	0 – 65535	Tutte
40015	unsigned short	feature_version	0 -> Base version 1 -> Full version	0	NEVER	WITH PASS C	0 – 65535	Tutte
40016	unsigned short	Mac_address_Wifi_ST A_1	Mac address Wifi Station MSB	11	ALWAYS	WITH PASS C	0 – 65535	Tutte
40017	unsigned short	Mac_address_Wifi_ST A_2	Mac address Wifi Station	22	ALWAYS	WITH PASS C	0 – 65535	Tutte
40018	unsigned short	Mac_address_Wifi_ST A_3	Mac address Wifi Station	33	ALWAYS	WITH PASS C	0 – 65535	Tutte
40019	unsigned short	Mac_address_Wifi_ST A_4	Mac address Wifi Station	44	ALWAYS	WITH PASS C	0 – 65535	Tutte
40020	unsigned short	Mac_address_Wifi_ST A_5	Mac address Wifi Station	55	ALWAYS	WITH PASS C	0 – 65535	Tutte
40021	unsigned short	Mac_address_Wifi_ST A_6	Mac address Wifi Station LSB	66	ALWAYS	WITH PASS C	0 – 65535	Tutte
40022	unsigned short	Mac_address_Wifi_S OFT_AP_1	Mac address Wifi software enabled access point MSB	11	ALWAYS	WITH PASS C	0 – 65535	Tutte
40023	unsigned short	Mac_address_Wifi_S OFT_AP_2	Mac address Wifi software enabled access point	22	ALWAYS	WITH PASS C	0 – 65535	Tutte
40024	unsigned short	Mac_address_Wifi_S OFT_AP_3	Mac address Wifi software enabled access point	33	ALWAYS	WITH PASS C	0 – 65535	Tutte
40025	unsigned short	Mac_address_Wifi_S OFT_AP_4	Mac address Wifi software enabled access point	44	ALWAYS	WITH PASS C	0 – 65535	Tutte
40026	unsigned short	Mac_address_Wifi_S OFT_AP_5	Mac address Wifi software enabled access point	55	ALWAYS	WITH PASS C	0 – 65535	Tutte
40027	unsigned short	Mac_address_Wifi_S OFT_AP_6	Mac address Wifi software enabled access point LSB	66	ALWAYS	WITH PASS C	0 – 65535	Tutte
40028	unsigned short	Mac_address_Ethern et_1	Mac address Ethernet MSB	31	ALWAYS	WITH PASS C	0 – 65535	Tutte

40029	unsigned short	Mac_address_Ethernet_2	Mac address Ethernet	32	ALWAYS	WITH PASS C	0 – 65535	Tutte
40030	unsigned short	Mac_address_Ethernet_3	Mac address Ethernet	33	ALWAYS	WITH PASS C	0 – 65535	Tutte
40031	unsigned short	Mac_address_Ethernet_4	Mac address Ethernet	34	ALWAYS	WITH PASS C	0 – 65535	Tutte
40032	unsigned short	Mac_address_Ethernet_5	Mac address Ethernet	35	ALWAYS	WITH PASS C	0 – 65535	Tutte
40033	unsigned short	Mac_address_Ethernet_6	Mac address Ethernet LSB	36	ALWAYS	WITH PASS C	0 – 65535	Tutte
40034	unsigned short	Mac_address_Bluetooth_1	Mac address Bluetooth MSB	96	ALWAYS	WITH PASS C	0 – 65535	Tutte
40035	unsigned short	Mac_address_Bluetooth_2	Mac address Bluetooth	95	ALWAYS	WITH PASS C	0 – 65535	Tutte
40036	unsigned short	Mac_address_Bluetooth_3	Mac address Bluetooth	94	ALWAYS	WITH PASS C	0 – 65535	Tutte
40037	unsigned short	Mac_address_Bluetooth_4	Mac address Bluetooth	93	ALWAYS	WITH PASS C	0 – 65535	Tutte
40038	unsigned short	Mac_address_Bluetooth_5	Mac address Bluetooth	92	ALWAYS	WITH PASS C	0 – 65535	Tutte
40039	unsigned short	Mac_address_Bluetooth_6	Mac address Bluetooth LSB	91	ALWAYS	WITH PASS C	0 – 65535	Tutte
40041	unsigned short	plugin_board	0: nessun plugin 1: Digital input plugin 2: Lora plugin	0	ALWAYS	WITH PASS C	0 – 65535	Tutte

3.2 Impostazioni

Impostazioni								
Registro	Tipo	Nome	Descrizione	Default	Lettura	Scrittura	Min – Max	Ver.
40227	unsigned short	modbus_RTU_address	Modbus address	1	ALWAYS	ALWAYS	0 – 65535	Tutte
40228	unsigned short	modbus_RTU_delay	Delay Modbus answer (in ms)	0	ALWAYS	ALWAYS	0 – 65535	Tutte
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	Tutte
40230	unsigned short	modbus_RTU_parity	0 → NONE 1 → EVEN 2 → ODD	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40231	unsigned short	modbus_RTU_Stop_bit	0 → 1 Bit 1 → 1,5 Bit 2 → 2 Bit	0	ALWAYS	ALWAYS	0 – 65535	Tutte

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	Tutte
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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	Tutte
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	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
40237	float	TA_Transducer_delay	Current transformer delay in [°] @ 50 Hz for accurate power calculation	0	ALWAYS	ALWAYS	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
40239	float	TV_Transducer_ratio	Voltage transformer ratio M/N - Default 1.0 (Ex: 1000:100 → transducer_ratio = 10)	1	ALWAYS	ALWAYS	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
40241	float	TV_Transducer_delay	Voltage transformer delay in [°] @ 50 Hz for accurate power calculation	0	ALWAYS	ALWAYS	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
40243	float	minimum_voltage_ripple	Minimum threshold under which the instrument reads 0 independent from the input value	0	ALWAYS	ALWAYS	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
40245	float	minimum_current_ripple	Minimum threshold under which the instrument reads 0 independent from the input value	0	ALWAYS	ALWAYS	- 3.40282 35e+38 – 3.40282 35e+38	Tutte

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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	Tutte
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	Tutte
40251	unsigned short	minute_for_Max_and_AVG_demand	Minute for Max demand and Average power calculation (0..45)	15	ALWAYS	ALWAYS	0 – 45	Tutte
40253	unsigned short	seconds_for_mean_RMS	Register in seconds (0..60) for RMS average	15	ALWAYS	ALWAYS	0 – 60	Tutte
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	Tutte
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	Tutte
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	Tutte
40258	unsigned short	MQTT_broker	0 -> Chronos Broker 1 -> Custom Broker	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40259	float	Voltage_unbalance_setpoint	Setpoint for Voltage Unbalance Alarm	0	ALWAYS	ALWAYS	- 3.40282 35e+38 - 3.40282 35e+38	FULL
40261	unsigned short	MQTT_port	porta broker MQTT	8883	ALWAYS	ALWAYS	0 – 65535	Tutte
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	Tutte
40272	unsigned short	Alarm_delay	DIGITAL OUTPUT 1: Delay in ms for Alarm trigger	0	ALWAYS	ALWAYS	0 – 65535	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

40275	float	Alarm_hysteresis	DIGITAL OUTPUT 1: Alarm Hysteresis	0	ALWAYS	ALWAYS	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40277	float	Alarm_trip_value_2	DIGITAL OUTPUT 1: Second alarm Threshold for "within threshold" and "Outside threshold" condition	0	ALWAYS	ALWAYS	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40281	float	Nominal_Star_Voltage	Nominal Star Voltage for Sag, Swell, Interruption monitoring [V]	230	ALWAYS	ALWAYS	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	Tutte
40292	unsigned short	Modbus_TCP_port	Porta server modbus TCP	502	ALWAYS	ALWAYS	0 – 65535	Tutte
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	Tutte
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	Tutte
40389	unsigned short	Wifi_STA_IP_0	WI-FI STA IP static (DHCP off) 0	192	ALWAYS	ALWAYS	0 – 65535	Tutte
40390	unsigned short	Wifi_STA_IP_1	WI-FI STA IP static (DHCP off) 1	168	ALWAYS	ALWAYS	0 – 65535	Tutte

40391	unsigned short	Wifi_STA_IP_2	WI-FI STA IP static (DHCP off) 2	178	ALWAYS	ALWAYS	0 – 65535	Tutte
40392	unsigned short	Wifi_STA_IP_3	WI-FI STA IP static (DHCP off) 3	200	ALWAYS	ALWAYS	0 – 65535	Tutte
40393	unsigned short	Wifi_STA_Netmask_0	WI-FI STA NETMASK static (DHCP off) 0	255	ALWAYS	ALWAYS	0 – 65535	Tutte
40394	unsigned short	Wifi_STA_Netmask_1	WI-FI STA NETMASK static (DHCP off) 1	255	ALWAYS	ALWAYS	0 – 65535	Tutte
40395	unsigned short	Wifi_STA_Netmask_2	WI-FI STA NETMASK static (DHCP off) 2	255	ALWAYS	ALWAYS	0 – 65535	Tutte
40396	unsigned short	Wifi_STA_Netmask_3	WI-FI STA NETMASK static (DHCP off) 3	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40397	unsigned short	Wifi_STA_Gateway_0	WI-FI STA GATEWAY static (DHCP off) 0	192	ALWAYS	ALWAYS	0 – 65535	Tutte
40398	unsigned short	Wifi_STA_Gateway_1	WI-FI STA GATEWAY static (DHCP off) 1	168	ALWAYS	ALWAYS	0 – 65535	Tutte
40399	unsigned short	Wifi_STA_Gateway_2	WI-FI STA GATEWAY static (DHCP off) 2	178	ALWAYS	ALWAYS	0 – 65535	Tutte
40400	unsigned short	Wifi_STA_Gateway_3	WI-FI STA GATEWAY static (DHCP off) 3	200	ALWAYS	ALWAYS	0 – 65535	Tutte
40401	unsigned short	Wifi_STA_IP_assigned_by_dhcp_0	WI-FI STA IP SET (DHCP on) 0	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40402	unsigned short	Wifi_STA_IP_assigned_by_dhcp_1	WI-FI STA IP SET (DHCP on) 1	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40403	unsigned short	Wifi_STA_IP_assigned_by_dhcp_2	WI-FI STA IP SET (DHCP on) 2	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40404	unsigned short	Wifi_STA_IP_assigned_by_dhcp_3	WI-FI STA IP SET (DHCP on) 3	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40405	unsigned short	Wifi_STA_Netmask_assigned_by_dhcp_0	WI-FI STA NETMASK SET (DHCP on) 0	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40406	unsigned short	Wifi_STA_Netmask_assigned_by_dhcp_1	WI-FI STA NETMASK SET (DHCP on) 1	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40407	unsigned short	Wifi_STA_Netmask_assigned_by_dhcp_2	WI-FI STA NETMASK SET (DHCP on) 2	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40408	unsigned short	Wifi_STA_Netmask_assigned_by_dhcp_3	WI-FI STA NETMASK SET (DHCP on) 3	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40409	unsigned short	Wifi_STA_Gateway_assigned_by_dhcp_0	WI-FI STA GATEWAY SET (DHCP on) 0	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40410	unsigned short	Wifi_STA_Gateway_assigned_by_dhcp_1	WI-FI STA GATEWAY SET (DHCP on) 1	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40411	unsigned short	Wifi_STA_Gateway_assigned_by_dhcp_2	WI-FI STA GATEWAY SET (DHCP on) 2	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40412	unsigned short	Wifi_STA_Gateway_assigned_by_dhcp_3	WI-FI STA GATEWAY SET (DHCP on) 3	0	ALWAYS	ALWAYS	0 – 65535	Tutte
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	Tutte
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	Tutte
40509	unsigned short	Wifi_AP_IP_0	WI-FI AP IP 0	192	ALWAYS	ALWAYS	0 – 65535	Tutte

40510	unsigned short	Wifi_AP_IP_1	WI-FI AP IP 1	168	ALWAYS	ALWAYS	0 – 65535	Tutte
40511	unsigned short	Wifi_AP_IP_2	WI-FI AP IP 2	4	ALWAYS	ALWAYS	0 – 65535	Tutte
40512	unsigned short	Wifi_AP_IP_3	WI-FI AP IP 3	1	ALWAYS	ALWAYS	0 – 65535	Tutte
40513	unsigned short	Wifi_AP_Netmask_0	WI-FI AP NETMASK 0	255	ALWAYS	ALWAYS	0 – 65535	Tutte
40514	unsigned short	Wifi_AP_Netmask_1	WI-FI AP NETMASK 1	255	ALWAYS	ALWAYS	0 – 65535	Tutte
40515	unsigned short	Wifi_AP_Netmask_2	WI-FI AP NETMASK 2	255	ALWAYS	ALWAYS	0 – 65535	Tutte
40516	unsigned short	Wifi_AP_Netmask_3	WI-FI AP NETMASK 3	0	ALWAYS	ALWAYS	0 – 65535	Tutte
40517	unsigned short	Wifi_AP_Gateway_0	WI-FI AP GATEWAY 0	192	ALWAYS	ALWAYS	0 – 65535	Tutte
40518	unsigned short	Wifi_AP_Gateway_1	WI-FI AP GATEWAY 1	168	ALWAYS	ALWAYS	0 – 65535	Tutte
40519	unsigned short	Wifi_AP_Gateway_2	WI-FI AP GATEWAY 2	4	ALWAYS	ALWAYS	0 – 65535	Tutte
40520	unsigned short	Wifi_AP_Gateway_3	WI-FI AP GATEWAY 3	1	ALWAYS	ALWAYS	0 – 65535	Tutte
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	Tutte
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	Tutte
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	Tutte
40690 – 40705	char × 16	webserver_inst_psw_0 ... webserver_inst_psw_15	webserver authentication installer password char 0 ... webserver authentication installer password char 15		NEVER	ALWAYS	-128 – 255	Tutte
40715	signed short	wifi_tx_power	Wifi Strength of our antenna in dBm	20	ALWAYS	ALWAYS	-32768 – 32767	Tutte
40716	unsigned short	Pulses_per_kWh	Pulses per kWh impulsive digital output	1000	ALWAYS	ALWAYS	0 – 65535	Tutte

3.3 Energie

Energie								
Registro	Tipo	Nome	Descrizione	Default	Lettura	Scrittura	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	Tutte
40725	signed long long	KWh2	Active energy line 2 [Wh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40729	signed long long	KWh3	Active energy line 3 [Wh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
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	Tutte
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	Tutte
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	Tutte
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	Tutte

40749	signed long long	KWh_SUM_Plus	Positive Active energy three phase [Wh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40753	signed long long	KWh1_Neg	Negative Active energy line 1 [Wh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40757	signed long long	KWh2_Neg	Negative Active energy line 2 [Wh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40761	signed long long	KWh3_Neg	Negative Active energy line 3 [Wh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40765	signed long long	KWh_SUM_Neg	Negative Active energy three phase [Wh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40769	signed long long	KVARh1	Reactive energy line 1 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40773	signed long long	KVARh2	Reactive energy line 2 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40777	signed long long	KVARh3	Reactive energy line 3 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40781	signed long long	KVARh_SUM	Reactive energy three phase [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40785	signed long long	KVARh1_Inductive_positive	Inductive (positive P) Reactive energy line 1 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40789	signed long long	KVARh2_Inductive_positive	Inductive (positive P) Reactive energy line 2 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte

40793	signed long long	KVARh3_Inductive_positive	Inductive (positive P) Reactive energy line 3 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40797	signed long long	KVARh_SUM_Inductive_positive	Inductive (positive P) Reactive energy three phase [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40801	signed long long	KVARh1_Inductive_negative	Inductive (negative P) Reactive energy line 1 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40805	signed long long	KVARh2_Inductive_negative	Inductive (negative P) Reactive energy line 2 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40809	signed long long	KVARh3_Inductive_negative	Inductive (negative P) Reactive energy line 3 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40813	signed long long	KVARh_SUM_Inductive_negative	Inductive (negative P) Reactive energy three phase [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40817	signed long long	KVARh1_Capacitive_positive	Capacitive (positive P) Reactive energy line 1 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40821	signed long long	KVARh2_Capacitive_positive	Capacitive (positive P) Reactive energy line 2 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40825	signed long long	KVARh3_Capacitive_positive	Capacitive (positive P) Reactive energy line 3 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40829	signed long long	KVARh_SUM_Capacitive_positive	Capacitive (positive P) Reactive energy three phase [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40833	signed long long	KVARh1_Capacitive_negative	Capacitive (negative P) Reactive energy line 1 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte

40837	signed long long	KVARh2_Capacitive_negative	Capacitive (negative P) Reactive energy line 2 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40841	signed long long	KVARh3_Capacitive_negative	Capacitive (negative P) Reactive energy line 3 [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40845	signed long long	KVARh_SUM_Capacitive_negative	Capacitive (negative P) Reactive energy three phase [VARh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40849	signed long long	KVAh1	Apparent energy line 1 [VAh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40853	signed long long	KVAh2	Apparent energy line 2 [VAh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40857	signed long long	KVAh3	Apparent energy line 3 [VAh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40861	signed long long	KVAh_SUM	Apparent energy three phase [VAh tenth]	0	ALWAYS	WITH PASS INST	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40865	signed long long	Wh_storage_count	Number of Wh flash savings (every 1 minute)	0	ALWAYS	NEVER	- 9.22337 2e+18 – 9.22337 2e+18	Tutte
40869	unsigned long	Working_time	Working time of the device [mins]	0	ALWAYS	WITH PASS C	0 – 429496 7295	Tutte
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 – 429496 7295	Tutte

3.4 Misure in tempo reale

Misure in tempo reale									
Registro	Tipo	Nome	Descrizione	Default	Lettura	Scrittura	Min – Max	Ver.	

40897	unsigned long	Status_1	<pre>//STATUS_1 bit #define FLASH_SETTINGS_ERROR 0x00000001 #define FLASH_CALIBRATION_ERRO R 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_UPDATE D 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</pre>	0	ALWAYS	NEVER	0 – 429496 7295	Tutte
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40899	unsigned long	Status_2	<pre>//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_BOTTOM_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</pre>	0	ALWAYS	NEVER	0 – 4294967295	Tutte
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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	Tutte
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40906	unsigned short	Command	<pre>//comandi da scrivere sul registro COMMAND #define COMANDO_SALVATAGGIO_ FLASH_TARATURE 0xC1B0U #define COMANDO_SALVATAGGIO_ FLASH_SOLO_SETTAGGI 0xF1C0U #define COMANDO_SALVATAGGIO_ FLASH_SETTAGGI_E_NFC 0xC1C0U #define COMANDO_RESET_SETTIN GS_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_PW M 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 _INTERRUPT 0xE200U #define COMANDO_RESET_EVENTI _SAG 0xE300U #define</pre>	0	ALWAYS	ALWAYS	0 – 65535	Tutte
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40907	float	V_L1_N	RMS star voltage L1-N [V]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40909	float	V_L2_N	RMS star voltage L2-N [V]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40911	float	V_L3_N	RMS star voltage L3-N [V]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40913	float	V_STAR_AVG	RMS star avg value voltage [V]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40915	float	V_L1_L2	RMS line voltage L1-L2 [V]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40917	float	V_L2_L3	RMS line voltage L2-L3 [V]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40919	float	V_L3_L1	RMS line voltage L3-L1 [V]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40921	float	V_LINE_AVG	RMS line avg value voltage [V]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40923	float	I_L1	RMS line current L1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40925	float	I_L2	RMS line current L2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

40927	float	I_L3	RMS line current L3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40929	float	I_N	RMS line current N (if 1 or 2 TA connection, I_N = 0)	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40931	float	I_AVG	RMS avg value current (excluding neutral current I_N)	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40933	float	P1	RMS active power line 1 [W]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40935	float	P2	RMS active power line 2 [W]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40937	float	P3	RMS active power line 3 [W]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40939	float	P_SUM	RMS sum active power [W]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40941	float	Q1	RMS reactive power line 1 [VAR]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40943	float	Q2	RMS reactive power line 2 [VAR]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40945	float	Q3	RMS reactive power line 3 [VAR]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

40947	float	Q_SUM	RMS sum reactive power [VAR]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40949	float	S1	RMS apparent power line 1 [VAR]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40951	float	S2	RMS apparent power line 2 [VAR]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40953	float	S3	RMS apparent power line 3 [VAR]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40955	float	S_SUM	RMS sum apparent power [VAR]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40957	float	PF1	Power Factor line 1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40959	float	PF2	Power Factor line 2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40961	float	PF3	Power Factor line 3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40963	float	PF_3PH	Three Phase Power Factor	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40965	float	CF1	Crest Factor line 1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

40967	float	CF2	Crest Factor line 2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40969	float	CF3	Crest Factor line 3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40971	float	CF_N	Crest Factor Neutral	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40973	float	Frequency	Frequency [Hz]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40975	float	V_L1_N_peak	Star voltage L1-N peak [V]	0	ALWAYS	WITH PASS INST	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40977	float	V_L2_N_peak	Star voltage L2-N peak [V]	0	ALWAYS	WITH PASS INST	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40979	float	V_L3_N_peak	Star voltage L3-N peak [V]	0	ALWAYS	WITH PASS INST	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40981	float	V_L1_L2_peak	Line voltage L1-L2 peak [V]	0	ALWAYS	WITH PASS INST	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40983	float	V_L2_L3_peak	Line voltage L2-L3 peak [V]	0	ALWAYS	WITH PASS INST	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40985	float	V_L3_L1_peak	Line voltage L3-L1 peak [V]	0	ALWAYS	WITH PASS INST	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

40987	float	I_L1_peak	L1 current peak	0	ALWAYS	WITH PASS INST	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40989	float	I_L2_peak	L2 current peak	0	ALWAYS	WITH PASS INST	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40991	float	I_L3_peak	L3 current peak	0	ALWAYS	WITH PASS INST	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
40993	float	I_N_peak	N current peak	0	ALWAYS	WITH PASS INST	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41057	float	TAN_FI_1	Tangentθline 1 (+ inductive, - capacitive)	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41059	float	TAN_FI_2	Tangentθline 2 (+ inductive, - capacitive)	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41061	float	TAN_FI_3	Tangentθline 3 (+ inductive, - capacitive)	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41063	float	TAN_FI_AVG	Average Tangentθ(+ inductive, - capacitive)	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41065	float	Phase_Order	L1, L2, L3 = 0; L1, L3, L2 = 1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41067	float	Internal_temperature	Internal Temperature [°C]	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

3.5 Valori medi, massimi e minimi

Valori medi, massimi e minimi								
Registro	Tipo	Nome	Descrizione	Default	Lettura	Scrittura	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	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
41071	float	V_L1_N_RMS_MAX	Star voltage L1_N MAX RMS [V] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
41073	float	V_L1_N_RMS_min	Star voltage L1_N Min RMS [V] over last “seconds_for_min_RMS”	100000	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
41075	float	V_L2_N_RMS_AVG	Star voltage L2_N RMS average [V] over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
41077	float	V_L2_N_RMS_MAX	Star voltage L2_N MAX RMS [V] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
41079	float	V_L2_N_RMS_min	Star voltage L2_N Min RMS [V] over last “seconds_for_min_RMS”	100000	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
41081	float	V_L3_N_RMS_AVG	Star voltage L3_N RMS average [V] over “seconds_for_mean_RMS”	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	Tutte
41083	float	V_L3_N_RMS_MAX	Star voltage L3_N MAX RMS [V] over last “seconds_for_MAX_RMS”	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	Tutte

41085	float	V_L3_N_RMS_min	Star voltage L3_N Min RMS [V] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41087	float	V_STAR_AVG_RMS_AVG	Star voltage AVG RMS average [V] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41089	float	V_STAR_AVG_RMS_MAX	Star voltage AVG MAX RMS [V] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41091	float	V_STAR_AVG_RMS_min	Star voltage AVG Min RMS [V] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

41105	float	V_L3_L1_RMS_AVG	Line voltage L3-L1 RMS average [V] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41107	float	V_L3_L1_RMS_MAX	Line voltage L3-L1 MAX RMS [V] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41109	float	V_L3_L1_RMS_min	Line voltage L3-L1 Min RMS [V] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41111	float	V_LINE_AVG_RMS_AVG	Line voltage AVG RMS average [V] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41113	float	V_LINE_AVG_RMS_MAX	Line voltage AVG MAX RMS [V] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41115	float	V_LINE_AVG_RMS_min	Line voltage AVG Min RMS [V] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41117	float	I_L1_RMS_AVG	L1 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41119	float	I_L1_RMS_MAX	L1 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41121	float	I_L1_RMS_min	L1 Min RMS over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41123	float	I_L2_RMS_AVG	L2 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

41125	float	I_L2_RMS_MAX	L2 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41127	float	I_L2_RMS_min	L2 Min RMS over last"seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41129	float	I_L3_RMS_AVG	L3 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41131	float	I_L3_RMS_MAX	L3 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41133	float	I_L3_RMS_min	L3 Min RMS over last"seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41135	float	I_N_RMS_AVG	N RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41137	float	I_N_RMS_MAX	N MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41139	float	I_N_RMS_min	N Min RMS over last"seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41141	float	I_AVG_RMS_AVG	I_AVG RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41143	float	I_AVG_RMS_MAX	I_AVG MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

41145	float	I_AVG_RMS_min	I_AVG Min RMS over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41147	float	P1_RMS_AVG	P1 RMS average [W] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41149	float	P1_RMS_MAX	P1 MAX RMS [W] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41151	float	P1_RMS_min	P1 Min RMS [W] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41153	float	P2_RMS_AVG	P2 RMS average [W] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41155	float	P2_RMS_MAX	P2 MAX RMS [W] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41157	float	P2_RMS_min	P2 Min RMS [W] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41159	float	P3_RMS_AVG	P3 RMS average [W] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41161	float	P3_RMS_MAX	P3 MAX RMS [W] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41163	float	P3_RMS_min	P3 Min RMS [W] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

41165	float	P_SUM_RMS_AVG	P_SUM RMS average [W] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41167	float	P_SUM_RMS_MAX	P_SUM MAX RMS [W] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41169	float	P_SUM_RMS_min	P_SUM Min RMS [W] over last "seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41171	float	Q1_RMS_AVG	Q1 RMS average [VAR] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41173	float	Q1_RMS_MAX	Q1 MAX RMS [VAR] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41175	float	Q1_RMS_min	Q1 Min RMS [VAR] over last "seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41177	float	Q2_RMS_AVG	Q2 RMS average [VAR] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41179	float	Q2_RMS_MAX	Q2 MAX RMS [VAR] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41181	float	Q2_RMS_min	Q2 Min RMS [VAR] over last "seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41183	float	Q3_RMS_AVG	Q3 RMS average [VAR] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

41185	float	Q3_RMS_MAX	Q3 MAX RMS [VAR] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41187	float	Q3_RMS_min	Q3 Min RMS [VAR] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41189	float	Q_SUM_RMS_AVG	Q_SUM RMS average [VAR] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41191	float	Q_SUM_RMS_MAX	Q_SUM MAX RMS [VAR] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41193	float	Q_SUM_RMS_min	Q_SUM Min RMS [VAR] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41195	float	S1_RMS_AVG	S1 RMS average [VA] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41197	float	S1_RMS_MAX	S1 MAX RMS [VA] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41199	float	S1_RMS_min	S1 Min RMS [VA] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41201	float	S2_RMS_AVG	S2 RMS average [VA] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41203	float	S2_RMS_MAX	S2 MAX RMS [VA] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

41205	float	S2_RMS_min	S2 Min RMS [VA] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41207	float	S3_RMS_AVG	S3 RMS average [VA] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41209	float	S3_RMS_MAX	S3 MAX RMS [VA] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41211	float	S3_RMS_min	S3 Min RMS [VA] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41213	float	S_SUM_RMS_AVG	S_SUM RMS average [VA] over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41215	float	S_SUM_RMS_MAX	S_SUM MAX RMS [VA] over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41217	float	S_SUM_RMS_min	S_SUM Min RMS [VA] over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41219	float	PF1_RMS_AVG	PF1 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41221	float	PF1_RMS_MAX	PF1 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41223	float	PF1_RMS_min	PF1 Min RMS over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

41225	float	PF2_RMS_AVG	PF2 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41227	float	PF2_RMS_MAX	PF2 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41229	float	PF2_RMS_min	PF2 Min RMS over last "seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41231	float	PF3_RMS_AVG	PF3 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41233	float	PF3_RMS_MAX	PF3 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41235	float	PF3_RMS_min	PF3 Min RMS over last "seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41237	float	PF_SUM_RMS_AVG	PF_SUM RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41239	float	PF_SUM_RMS_MAX	PF_SUM MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41241	float	PF_SUM_RMS_min	PF_SUM Min RMS over last "seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41243	float	CF1_RMS_AVG	CF1 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

41245	float	CF1_RMS_MAX	CF1 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41247	float	CF1_RMS_min	CF1 Min RMS over last"seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41249	float	CF2_RMS_AVG	CF2 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41251	float	CF2_RMS_MAX	CF2 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41253	float	CF2_RMS_min	CF2 Min RMS over last"seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41255	float	CF3_RMS_AVG	CF3 RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41257	float	CF3_RMS_MAX	CF3 MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41259	float	CF3_RMS_min	CF3 Min RMS over last"seconds_for_min_RMS "	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41261	float	CF_N_RMS_AVG	CF_N RMS average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41263	float	CF_N_RMS_MAX	CF_N MAX RMS over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

41265	float	CF_N_RMS_min	CF_N Min RMS over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41267	float	Frequency_RMS_AVG	Frequency average over "seconds_for_mean_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41269	float	Frequency_RMS_MAX	Frequency MAX over last "seconds_for_MAX_RMS"	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41271	float	Frequency_RMS_min	Frequency Min over last "seconds_for_min_RMS"	100000	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41281	float	P1_Tot_AVG	Average total Power over "minute_for_Max_and_AVG_demand" for P1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41283	float	P2_Tot_AVG	Average total Power over "minute_for_Max_and_AVG_demand" for P2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41285	float	P3_Tot_AVG	Average total Power over "minute_for_Max_and_AVG_demand" for P3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41287	float	P_SUM_Tot_AVG	Average total Power over "minute_for_Max_and_AVG_demand" for P three phase	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41289	float	P1_Plus_AVG	Average positive Power over "minute_for_Max_and_AVG_demand" for P1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41291	float	P2_Plus_AVG	Average positive Power over "minute_for_Max_and_AVG_demand" for P2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

41293	float	P3_Plus_AVG	Average positive Power over "minute_for_Max_and_AV G_demand" for P3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41295	float	P_SUM_Plus_AVG	Average positive Power over "minute_for_Max_and_AV G_demand" for P three phase	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41297	float	P1_Neg_AVG	Average Negative Power over "minute_for_Max_and_AV G_demand" for P1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41299	float	P2_Neg_AVG	Average Negative Power over "minute_for_Max_and_AV G_demand" for P2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41301	float	P3_Neg_AVG	Average Negative Power over "minute_for_Max_and_AV G_demand" for P3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41303	float	P_SUM_Neg_AVG	Average Negative Power over "minute_for_Max_and_AV G_demand" for P three phase	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41305	float	Q1_Plus_AVG_ind	Average Reactive Inductive Power with positive active power over "minute_for_Max_and_AV G_demand" for Q1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41307	float	Q2_Plus_AVG_ind	Average Reactive Inductive Power with positive active power over "minute_for_Max_and_AV G_demand" for Q2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41309	float	Q3_Plus_AVG_ind	Average Reactive Inductive Power with positive active power over "minute_for_Max_and_AV G_demand" for Q3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41311	float	Q_SUM_Plus_AVG_in d	Average Reactive Inductive Power with positive active power over "minute_for_Max_and_AV G_demand" for Q three phase	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte

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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41337	float	P1_MaxDemand	MAX Demand over "minute_for_Max_and_AVG_demand" for P1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41339	float	P2_MaxDemand	MAX Demand over "minute_for_Max_and_AVG_demand" for P2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41341	float	P3_MaxDemand	MAX Demand over "minute_for_Max_and_AVG_demand" for P3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
41343	float	P_SUM_MaxDemand	MAX Demand over "minute_for_Max_and_AVG_demand" for P three phase	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	Tutte
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	Tutte
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	Tutte
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	Tutte
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	Tutte

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

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

3.6 Armoniche e interarmoniche

Armoniche e interarmoniche								
Registro	Tipo	Nome	Descrizione	Default	Lettura	Scrittura	Min – Max	Ver.
41377	float	Efficiency	Calculate efficiency of Phase 1 compared to Phase 2	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
41379	float	Voltage_unbalance	Voltage Unbalance of the three phase system	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
41381	float	K_factor_I1	K-factor for I1, see IEEE Standard 1100-1992	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
41383	float	K_factor_I2	K-factor for I2, see IEEE Standard 1100-1992	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
41385	float	K_factor_I3	K-factor for I3, see IEEE Standard 1100-1992	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL

41387	float	DPF1	Distortion Power Factor line 1 (+ inductive, - capacitive)	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41389	float	DPF2	Distortion Power Factor line 2 (+ inductive, - capacitive)	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41391	float	DPF3	Distortion Power Factor line 3 (+ inductive, - capacitive)	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41393	float	DPF_N	Neutral Distortion Power Factor (+ inductive, - capacitive)	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41395	float	THD_V_L1	THD Star Voltage L1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41397	float	THD_V_L2	THD Star Voltage L2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41399	float	THD_V_L3	THD Star Voltage L3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41401	float	THD_V_L12	THD Line Voltage L1-L2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41403	float	THD_V_L23	THD Line Voltage L2-L3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41405	float	THD_V_L31	THD Line Voltage L3-L1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL

41407	float	THD_I_L1	THD Line Current L1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41409	float	THD_I_L2	THD Line Current L2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41411	float	THD_I_L3	THD Line Current L3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41413	float	THD_I_N	THD Neutral Current	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41415	float	TDD_I_L1	TDD Line Current L1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41417	float	TDD_I_L2	TDD Line Current L2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41419	float	TDD_I_L3	TDD Line Current L3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41421 – 41548	float × 64	V_L1N_H_AMPLITUD E_0 ... V_L1N_H_AMPLITUD E_63	Star Voltage L1-N Harmonic amplitude #0 ... Star Voltage L1-N Harmonic amplitude #63		ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
41677 – 41804	float × 64	V_L2N_H_AMPLITUD E_0 ... V_L2N_H_AMPLITUD E_63	Star Voltage L2-N Harmonic amplitude #0 ... Star Voltage L2-N Harmonic amplitude #63		ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
44493 – 44620	float × 64	V_L3N_IH_AMPLITUD E_0 ... V_L3N_IH_AMPLITUD E_63	Star Voltage L3-N InterHarmonic amplitude #0 ... Star Voltage L3-N InterHarmonic amplitude #63		ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
44749 – 44876	float × 64	V_L12_IH_AMPLITUD E_0 ... V_L12_IH_AMPLITUD E_63	Line Voltage L1-L2 InterHarmonic amplitude #0 ... Line Voltage L1-L2 InterHarmonic amplitude #63		ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
45005 – 45132	float × 64	V_L23_IH_AMPLITUD E_0 ... V_L23_IH_AMPLITUD E_63	Line Voltage L2-L3 InterHarmonic amplitude #0 ... Line Voltage L2-L3 InterHarmonic amplitude #63		ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
45261 – 45388	float × 64	V_L31_IH_AMPLITUD E_0 ... V_L31_IH_AMPLITUD E_63	Line Voltage L3-L1 InterHarmonic amplitude #0 ... Line Voltage L3-L1 InterHarmonic amplitude #63		ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL

3.7 Qualità dell'energia

Qualità dell'energia								
Registro	Tipo	Nome	Descrizione	Default	Lettura	Scrittura	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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46553	float	I_SAG_NEW_VALUE_N_0	Current RMS value during SAG event @ n-0	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46555	float	I_SAG_OLD_VALUE_N_0	Current RMS value before SAG event @ n-0	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46569	float	I_SAG_NEW_VALUE_N_1	Current RMS value during SAG event @ n-1	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46571	float	I_SAG_OLD_VALUE_N_1	Current RMS value before SAG event @ n-1	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+38	FULL

46585	float	I_SAG_NEW_VALUE_N_2	Current RMS value during SAG event @ n-2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46587	float	I_SAG_OLD_VALUE_N_2	Current RMS value before SAG event @ n-2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46601	float	I_SAG_NEW_VALUE_N_3	Current RMS value during SAG event @ n-3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46603	float	I_SAG_OLD_VALUE_N_3	Current RMS value before SAG event @ n-3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46617	float	I_SAG_NEW_VALUE_N_4	Current RMS value during SAG event @ n-4	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46619	float	I_SAG_OLD_VALUE_N_4	Current RMS value before SAG event @ n-4	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46633	float	I_SAG_NEW_VALUE_N_5	Current RMS value during SAG event @ n-5	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46635	float	I_SAG_OLD_VALUE_N_5	Current RMS value before SAG event @ n-5	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46649	float	I_SAG_NEW_VALUE_N_6	Current RMS value during SAG event @ n-6	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46651	float	I_SAG_OLD_VALUE_N_6	Current RMS value before SAG event @ n-6	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+38	FULL

46665	float	I_SAG_NEW_VALUE_N_7	Current RMS value during SAG event @ n-7	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46667	float	I_SAG_OLD_VALUE_N_7	Current RMS value before SAG event @ n-7	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46681	float	I_SAG_NEW_VALUE_N_8	Current RMS value during SAG event @ n-8	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46683	float	I_SAG_OLD_VALUE_N_8	Current RMS value before SAG event @ n-8	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46697	float	I_SAG_NEW_VALUE_N_9	Current RMS value during SAG event @ n-9	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46699	float	I_SAG_OLD_VALUE_N_9	Current RMS value before SAG event @ n-9	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46701	float	V_SAG_VALUE_EEPROM	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") EEPROM data	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46747	float	I_SWELL_OLD_VALUE_N_1	Current RMS value before SWELL event @ n-1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46761	float	I_SWELL_NEW_VALUE_N_2	Current RMS value during SWELL event @ n-2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46763	float	I_SWELL_OLD_VALUE_N_2	Current RMS value before SWELL event @ n-2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46777	float	I_SWELL_NEW_VALUE_N_3	Current RMS value during SWELL event @ n-3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46779	float	I_SWELL_OLD_VALUE_N_3	Current RMS value before SWELL event @ n-3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46793	float	I_SWELL_NEW_VALUE_N_4	Current RMS value during SWELL event @ n-4	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46795	float	I_SWELL_OLD_VALUE_N_4	Current RMS value before SWELL event @ n-4	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+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_VALU E_N_6	Current RMS value during SWELL event @ n-6	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46827	float	I_SWELL_OLD_VALUE _N_6	Current RMS value before SWELL event @ n-6	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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_VALU E_N_7	Voltage RMS Value before SWELL event @ n-7	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46841	float	I_SWELL_NEW_VALU E_N_7	Current RMS value during SWELL event @ n-7	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46843	float	I_SWELL_OLD_VALUE _N_7	Current RMS value before SWELL event @ n-7	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46857	float	I_SWELL_NEW_VALUE_N_8	Current RMS value during SWELL event @ n-8	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46859	float	I_SWELL_OLD_VALUE_N_8	Current RMS value before SWELL event @ n-8	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46873	float	I_SWELL_NEW_VALUE_N_9	Current RMS value during SWELL event @ n-9	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46875	float	I_SWELL_OLD_VALUE_N_9	Current RMS value before SWELL event @ n-9	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46877	float	V_SWELL_VALUE_EEPROM	Voltage Swell RMS Value (between 10% and 90% "Nominal_Star_Voltage") EEPROM data	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+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_INTERRUPT_RMS_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_INTERRUPT_YEAR_N_0	Voltage Interruption Year @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46896	unsigned short	V_INTERRUPT_MONTH_N_0	Voltage Interruption Month @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46897	unsigned short	V_INTERRUPT_DAY_N_0	Voltage Interruption Day @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46898	unsigned short	V_INTERRUPT_HOUR_N_0	Voltage Interruption Hour @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46899	unsigned short	V_INTERRUPT_MINUTE_N_0	Voltage Interruption Minute @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46900	unsigned short	V_INTERRUPT_SECOND_N_0	Voltage Interruption Second @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46901	unsigned short	V_INTERRUPT_DURATION_N_0	Voltage Interruption Duration [ms] @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
46902	unsigned short	V_INTERRUPT_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_INTERRUPT_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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46907	float	I_INTERRUPTION_OLD_VALUE_N_0	Current RMS value before INTERRUPTION event @ n-0	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46921	float	I_INTERRUPTION_NEW_VALUE_N_1	Current RMS value during INTERRUPTION event @ n-1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46923	float	I_INTERRUPTION_OLD_VALUE_N_1	Current RMS value before INTERRUPTION event @ n-1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL

46925	float	V_INTERRUPTIO N_VA LUE_N_2	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46927	unsigned short	V_INTERRUPTIO N_YEAR_N_2	Voltage Interruption Year @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46928	unsigned short	V_INTERRUPTIO N_MONTH_N_2	Voltage Interruption Month @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46929	unsigned short	V_INTERRUPTIO N_DAY_N_2	Voltage Interruption Day @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46930	unsigned short	V_INTERRUPTIO N_HOUR_N_2	Voltage Interruption Hour @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46931	unsigned short	V_INTERRUPTIO N_MINUTE_N_2	Voltage Interruption Minute @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46932	unsigned short	V_INTERRUPTIO N_SECOND_N_2	Voltage Interruption Second @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46933	unsigned short	V_INTERRUPTIO N_DURATION_N_2	Voltage Interruption Duration [ms] @ n-2	0	ALWAYS	NEVER	0 – 65535	FULL
46934	unsigned short	V_INTERRUPTIO N_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_INTERRUPTIO N_OLD_VALUE_N_2	Voltage RMS Value before INTERRUPTION event @ n-2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46937	float	I_INTERRUPTIO N_NEW_VALUE_N_2	Current RMS value during INTERRUPTION event @ n-2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46939	float	I_INTERRUPTIO N_OLD_VALUE_N_2	Current RMS value before INTERRUPTION event @ n-2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46941	float	V_INTERRUPTIO N_VA LUE_N_3	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-3	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46943	unsigned short	V_INTERRUPTIO N_YEAR_N_3	Voltage Interruption Year @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46944	unsigned short	V_INTERRUPTIO N_MONTH_N_3	Voltage Interruption Month @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46945	unsigned short	V_INTERRUPTIO N_DAY_N_3	Voltage Interruption Day @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL

46946	unsigned short	V_INTERRUPTIO N_H OUR_N_3	Voltage Interruption Hour @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46947	unsigned short	V_INTERRUPTIO N_MI NUTE_N_3	Voltage Interruption Minute @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46948	unsigned short	V_INTERRUPTIO N_SE COND_N_3	Voltage Interruption Second @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46949	unsigned short	V_INTERRUPTIO N_DU RATION_N_3	Voltage Interruption Duration [ms] @ n-3	0	ALWAYS	NEVER	0 – 65535	FULL
46950	unsigned short	V_INTERRUPTIO N_Q UERY_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_INTERRUPTIO N_OL D_VALUE_N_3	Voltage RMS Value before INTERRUPTION event @ n-3	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46953	float	I_INTERRUPTIO N_NE W_VALUE_N_3	Current RMS value during INTERRUPTION event @ n-3	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46955	float	I_INTERRUPTIO N_OL D_VALUE_N_3	Current RMS value before INTERRUPTION event @ n-3	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46957	float	V_INTERRUPTIO N_VA LUE_N_4	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-4	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46959	unsigned short	V_INTERRUPTIO N_YE AR_N_4	Voltage Interruption Year @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46960	unsigned short	V_INTERRUPTIO N_M ONTH_N_4	Voltage Interruption Month @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46961	unsigned short	V_INTERRUPTIO N_DA Y_N_4	Voltage Interruption Day @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46962	unsigned short	V_INTERRUPTIO N_H OUR_N_4	Voltage Interruption Hour @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46963	unsigned short	V_INTERRUPTIO N_MI NUTE_N_4	Voltage Interruption Minute @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46964	unsigned short	V_INTERRUPTIO N_SE COND_N_4	Voltage Interruption Second @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL
46965	unsigned short	V_INTERRUPTIO N_DU RATION_N_4	Voltage Interruption Duration [ms] @ n-4	0	ALWAYS	NEVER	0 – 65535	FULL

46966	unsigned short	V_INTERRUPTIO N_Q 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_INTERRUPTIO L D_VALUE_N_4	Voltage RMS Value before INTERRUPTION event @ n-4	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46969	float	I_INTERRUPTIO N W_VALUE_N_4	Current RMS value during INTERRUPTION event @ n-4	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46971	float	I_INTERRUPTIO L D_VALUE_N_4	Current RMS value before INTERRUPTION event @ n-4	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46973	float	V_INTERRUPTIO V A LUE_N_5	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-5	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
46975	unsigned short	V_INTERRUPTIO Y E A R_N_5	Voltage Interruption Year @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46976	unsigned short	V_INTERRUPTIO M O N T H_N_5	Voltage Interruption Month @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46977	unsigned short	V_INTERRUPTIO D A Y_N_5	Voltage Interruption Day @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46978	unsigned short	V_INTERRUPTIO H O U R_N_5	Voltage Interruption Hour @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46979	unsigned short	V_INTERRUPTIO M I N U T E_N_5	Voltage Interruption Minute @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46980	unsigned short	V_INTERRUPTIO S E C O N D_N_5	Voltage Interruption Second @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46981	unsigned short	V_INTERRUPTIO D U R A T I O N_N_5	Voltage Interruption Duration [ms] @ n-5	0	ALWAYS	NEVER	0 – 65535	FULL
46982	unsigned short	V_INTERRUPTIO N_Q 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_INTERRUPTIO N_OL D_VALUE_N_5	Voltage RMS Value before INTERRUPTION event @ n-5	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46985	float	I_INTERRUPTIO N_NE W_VALUE_N_5	Current RMS value during INTERRUPTION event @ n-5	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46987	float	I_INTERRUPTIO N_OL D_VALUE_N_5	Current RMS value before INTERRUPTION event @ n-5	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46989	float	V_INTERRUPTIO N_VA LUE_N_6	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-6	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
46991	unsigned short	V_INTERRUPTIO N_YE AR_N_6	Voltage Interruption Year @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46992	unsigned short	V_INTERRUPTIO N_M ONTH_N_6	Voltage Interruption Month @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46993	unsigned short	V_INTERRUPTIO N_DA Y_N_6	Voltage Interruption Day @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46994	unsigned short	V_INTERRUPTIO N_H OUR_N_6	Voltage Interruption Hour @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46995	unsigned short	V_INTERRUPTIO N_MI NUTE_N_6	Voltage Interruption Minute @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46996	unsigned short	V_INTERRUPTIO N_SE COND_N_6	Voltage Interruption Second @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46997	unsigned short	V_INTERRUPTIO N_DU RATION_N_6	Voltage Interruption Duration [ms] @ n-6	0	ALWAYS	NEVER	0 – 65535	FULL
46998	unsigned short	V_INTERRUPTIO N_Q UERY_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_INTERRUPTIO N_OL D_VALUE_N_6	Voltage RMS Value before INTERRUPTION event @ n-6	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47001	float	I_INTERRUPTIO N_NE W_VALUE_N_6	Current RMS value during INTERRUPTION event @ n-6	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL

47003	float	I_INTERRUPTION_OLD_VALUE_N_6	Current RMS value before INTERRUPTION event @ n-6	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47017	float	I_INTERRUPTION_NEW_VALUE_N_7	Current RMS value during INTERRUPTION event @ n-7	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47019	float	I_INTERRUPTION_OLD_VALUE_N_7	Current RMS value before INTERRUPTION event @ n-7	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL

47023	unsigned short	V_INTERRUPTIO N_YE AR_N_8	Voltage Interruption Year @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47024	unsigned short	V_INTERRUPTIO N_M ONTH_N_8	Voltage Interruption Month @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47025	unsigned short	V_INTERRUPTIO N_DA Y_N_8	Voltage Interruption Day @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47026	unsigned short	V_INTERRUPTIO N_H OUR_N_8	Voltage Interruption Hour @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47027	unsigned short	V_INTERRUPTIO N_MI NUTE_N_8	Voltage Interruption Minute @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47028	unsigned short	V_INTERRUPTIO N_SE COND_N_8	Voltage Interruption Second @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47029	unsigned short	V_INTERRUPTIO N_DU RATION_N_8	Voltage Interruption Duration [ms] @ n-8	0	ALWAYS	NEVER	0 – 65535	FULL
47030	unsigned short	V_INTERRUPTIO N_Q UERY_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_INTERRUPTIO N_OL D_VALUE_N_8	Voltage RMS Value before INTERRUPTION event @ n-8	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47033	float	I_INTERRUPTIO N_NE W_VALUE_N_8	Current RMS value during INTERRUPTION event @ n-8	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47035	float	I_INTERRUPTIO N_OL D_VALUE_N_8	Current RMS value before INTERRUPTION event @ n-8	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47037	float	V_INTERRUPTIO N_VA LUE_N_9	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-9	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47039	unsigned short	V_INTERRUPTIO N_YE AR_N_9	Voltage Interruption Year @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47040	unsigned short	V_INTERRUPTIO N_M ONTH_N_9	Voltage Interruption Month @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47041	unsigned short	V_INTERRUPTIO N_DA Y_N_9	Voltage Interruption Day @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47042	unsigned short	V_INTERRUPTIO N_H OUR_N_9	Voltage Interruption Hour @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47043	unsigned short	V_INTERRUPTIO N_MI NUTE_N_9	Voltage Interruption Minute @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL

47044	unsigned short	V_INTERRUPTIO SE COND_N_9	Voltage Interruption Second @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47045	unsigned short	V_INTERRUPTIO DU RATION_N_9	Voltage Interruption Duration [ms] @ n-9	0	ALWAYS	NEVER	0 – 65535	FULL
47046	unsigned short	V_INTERRUPTIO Q UERY_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_INTERRUPTIO OL D_VALUE_N_9	Voltage RMS Value before INTERRUPTION event @ n-9	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47049	float	I_INTERRUPTIO NE W_VALUE_N_9	Current RMS value during INTERRUPTION event @ n-9	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47051	float	I_INTERRUPTIO OL D_VALUE_N_9	Current RMS value before INTERRUPTION event @ n-9	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47053	float	V_INTERRUPTIO VA LUE_EEPROM	Voltage Interruption RMS Value (between 10% and 90% "Nominal_Star_Voltage") EEPROM data	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47055	unsigned short	V_INTERRUPTIO YE AR_EEPROM	Voltage Interruption Year EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47056	unsigned short	V_INTERRUPTIO M ONTH_EEPROM	Voltage Interruption Month EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47057	unsigned short	V_INTERRUPTIO DA Y_EEPROM	Voltage Interruption Day EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47058	unsigned short	V_INTERRUPTIO H OUR_EEPROM	Voltage Interruption Hour EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47059	unsigned short	V_INTERRUPTIO MI NUTE_EEPROM	Voltage Interruption Minute EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47060	unsigned short	V_INTERRUPTIO SE COND_EEPROM	Voltage Interruption Second EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL
47061	unsigned short	V_INTERRUPTIO DU RATION_EEPROM	Voltage Interruption Duration [ms] EEPROM data	0	ALWAYS	NEVER	0 – 65535	FULL

47062	unsigned short	V_INTERRUPTIO N_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_INTERRUPTIO LD_VALUE_EEPROM	Voltage RMS Value before INTERRUPTION event EEPROM data	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47065	float	I_INTERRUPTIO NEW_VALUE_EEPROM	Current RMS value during INTERRUPTION event EEPROM data	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47067	float	I_INTERRUPTIO OLD_VALUE_EEPROM	Current RMS value before INTERRUPTION event EEPROM data	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47069	float	V_FLICKER_VALU E_N_0	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-0	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+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_MON TH_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_HOU R_N_0	Voltage Flicker Hour @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47075	unsigned short	V_FLICKER_MIN UTE_N_0	Voltage Flicker Minute @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47076	unsigned short	V_FLICKER_SE COND_N_0	Voltage Flicker Second @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47077	unsigned short	V_FLICKER_RE PETITION_N_0	Voltage Flicker Repetition [ms] @ n-0	0	ALWAYS	NEVER	0 – 65535	FULL
47078	unsigned short	V_FLICKER_QU ERY_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_O LD_VALU E_N_0	Voltage RMS Value before FLICKER event @ n-0	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL

47081	float	I_FLICKER_NEW_VALUE_N_0	Current RMS value during FLICKER event @ n-0	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47083	float	I_FLICKER_OLD_VALUE_N_0	Current RMS value before FLICKER event @ n-0	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47097	float	I_FLICKER_NEW_VALUE_N_1	Current RMS value during FLICKER event @ n-1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47099	float	I_FLICKER_OLD_VALUE_N_1	Current RMS value before FLICKER event @ n-1	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47113	float	I_FLICKER_NEW_VALUE_N_2	Current RMS value during FLICKER event @ n-2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47115	float	I_FLICKER_OLD_VALUE_N_2	Current RMS value before FLICKER event @ n-2	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47163	float	I_FLICKER_OLD_VALUE_N_5	Current RMS value before FLICKER event @ n-5	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47177	float	I_FLICKER_NEW_VALUE_N_6	Current RMS value during FLICKER event @ n-6	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47179	float	I_FLICKER_OLD_VALUE_N_6	Current RMS value before FLICKER event @ n-6	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47193	float	I_FLICKER_NEW_VALUE_N_7	Current RMS value during FLICKER event @ n-7	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47195	float	I_FLICKER_OLD_VALUE_N_7	Current RMS value before FLICKER event @ n-7	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47225	float	I_FLICKER_NEW_VALUE_N_9	Current RMS value during FLICKER event @ n-9	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47227	float	I_FLICKER_OLD_VALUE_N_9	Current RMS value before FLICKER event @ n-9	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+38	FULL
47229	float	V_FLICKER_VALUE_EEPROM	Voltage Flicker RMS Value (between 10% and 90% "Nominal_Star_Voltage") EEPROM data	0	ALWAYS	NEVER	- 3.40282 35e+38 – 3.40282 35e+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	- 3.40282 35e+38 – 3.40282 35e+38	FULL

47241	float	I_FLICKER_NEW_VALUE_EEPROM	Current RMS value during FLICKER event EEPROM data	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL
47243	float	I_FLICKER_OLD_VALUE_EEPROM	Current RMS value before FLICKER event EEPROM data	0	ALWAYS	NEVER	- 3.40282 35e+38 - 3.40282 35e+38	FULL

3.8 Forme d'onda (oscilloscopio)

Forme d'onda (oscilloscopio)								
Registro	Tipo	Nome	Descrizione	Default	Lettura	Scrittura	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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+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	- 3.40282 35e+38 - 3.40282 35e+38	FULL

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