

All versions  
Only FULL version

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



Register Name	Description	Register Type	R/W	Default	Modbus Address
<b>Device information</b>					
machine_id_1	Machine ID, set by Chronos. 1 char per register	char	RO	E	40001
machine_id_2	Machine ID, set by Chronos. 1 char per register	char	RO	M	40002
machine_id_3	Machine ID, set by Chronos. 1 char per register	char	RO	T	40003
machine_id_4	Machine ID, set by Chronos. 1 char per register	char	RO	1	40004
machine_id_5	Machine ID, set by Chronos. 1 char per register	char	RO	3	40005
machine_id_6	Machine ID, set by Chronos. 1 char per register	char	RO	0	40006
machine_id_7	Machine ID, set by Chronos. 1 char per register	char	RO	10	40007
machine_id_8	Machine ID, set by Chronos. 1 char per register	char	RO	10	40008
hw_version	Hardware version, set by Chronos.	unsigned short	RO	1	40009
fw_version	Firmware version, set by Chronos.	unsigned short	RO	1	40010
mounted_version	0 -> 5A 1 -> Rogowski, 333 mV	unsigned short	RO	0	40011
year_month	calibration year and month	unsigned short	RO	6153	40012
day_hour	calibration day and hour	unsigned short	RO	6671	40013
minute_second	calibration minute and second	unsigned short	RO	9517	40014
feature_version	0 -> Base version 1 -> Full version	unsigned short		0	40015
Mac_address_Wifi_STA_1	Mac address Wifi Station MSB	unsigned short	RO	11	40016
Mac_address_Wifi_STA_2	Mac address Wifi Station	unsigned short	RO	22	40017
Mac_address_Wifi_STA_3	Mac address Wifi Station	unsigned short	RO	33	40018
Mac_address_Wifi_STA_4	Mac address Wifi Station	unsigned short	RO	44	40019
Mac_address_Wifi_STA_5	Mac address Wifi Station	unsigned short	RO	55	40020
Mac_address_Wifi_STA_6	Mac address Wifi Station LSB	unsigned short	RO	66	40021
Mac_address_Wifi_SOFT_AP_1	Mac address Wifi software enabled access point MSB	unsigned short	RO	11	40022
Mac_address_Wifi_SOFT_AP_2	Mac address Wifi software enabled access point	unsigned short	RO	22	40023
Mac_address_Wifi_SOFT_AP_3	Mac address Wifi software enabled access point	unsigned short	RO	33	40024
Mac_address_Wifi_SOFT_AP_4	Mac address Wifi software enabled access point	unsigned short	RO	44	40025
Mac_address_Wifi_SOFT_AP_5	Mac address Wifi software enabled access point	unsigned short	RO	55	40026
Mac_address_Wifi_SOFT_AP_6	Mac address Wifi software enabled access point LSB	unsigned short	RO	66	40027
Mac_address_Ethernet_1	Mac address Ethernet MSB	unsigned short	RO	31	40028
Mac_address_Ethernet_2	Mac address Ethernet	unsigned short	RO	32	40029
Mac_address_Ethernet_3	Mac address Ethernet	unsigned short	RO	33	40030
Mac_address_Ethernet_4	Mac address Ethernet	unsigned short	RO	34	40031
Mac_address_Ethernet_5	Mac address Ethernet	unsigned short	RO	35	40032
Mac_address_Ethernet_6	Mac address Ethernet LSB	unsigned short	RO	36	40033
Mac_address_Bluetooth_1	Mac address Bluetooth MSB	unsigned short	RO	96	40034
Mac_address_Bluetooth_2	Mac address Bluetooth	unsigned short	RO	95	40035
Mac_address_Bluetooth_3	Mac address Bluetooth	unsigned short	RO	94	40036
Mac_address_Bluetooth_4	Mac address Bluetooth	unsigned short	RO	93	40037
Mac_address_Bluetooth_5	Mac address Bluetooth	unsigned short	RO	92	40038
Mac_address_Bluetooth_6	Mac address Bluetooth LSB	unsigned short	RO	91	40039
<b>Device settings</b>					
modbus_RTU_address	Modbus address	unsigned short	R/W	1	40227
modbus_RTU_delay	Delay Modbus answer (in ms)	unsigned short	R/W	0	40228
modbus_RTU_baudrate	Baudrate 0 -> 1200 1 -> 2400 2 -> 4800 3 -> 9600 4 -> 19200 5 -> 38400 6 -> 57600 7 -> 115200	unsigned short	R/W	3	40229
modbus_RTU_parity	0 -> NONE 1 -> EVEN 2 -> ODD	unsigned short	R/W	0	40230
modbus_RTU_Stop_bit	0 -> 1 Bit 1 -> 1,5 Bit 2 -> 2 Bit	unsigned short	R/W	0	40231
Measurement_Configuration_Register	Bit 0: Don't care Bit 1, 2: Connection	unsigned short	R/W	518	40232
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	unsigned short	R/W	1	40233
TA_Chronos_register	0 -> Let user choose what Ratio and delay to choose 1 -> Assigned to Chronos 100/5	unsigned short	R/W	0	40234
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]	float	R/W	1	40235
TA_Transducer_delay	Current transformer delay in [°] @ 50 Hz for accurate power calculation	float	R/W	0	40237
TV_Transducer_ratio	Voltage transformer ratio M/N - Default 1.0 (Ex: 1000:100 -> transducer_ratio = 10)	float	R/W	1	40239
TV_Transducer_delay	Voltage transformer delay in [°] @ 50 Hz for accurate power calculation	float	R/W	0	40241
minimum_voltage_ripple	Minimum threshold under which the instrument reads 0 independent from the input value	float	R/W	0	40243
minimum_current_ripple	Minimum threshold under which the instrument reads 0 independent from the input value	float	R/W	0	40245
minimum_power_ripple	Minimum threshold under which the instrument reads 0 independent from the input value (P, Q, and S)	float	R/W	0	40247
DC_Filter	Update rate when no Zero crossing is detected (tenth of second); lower => faster; higher => more accurate	unsigned short	R/W	10	40249
AC_Filter	Update rate when Zero crossing is detected (number of periods); lower => faster; higher => more accurate	unsigned short	R/W	50	40250
minute_for_Max_and_AVG_demand	Minute for Max demand and Average power calculation (0..45)	unsigned short	R/W	0	40251
seconds_for_mean_RMS	Register in seconds (0..60) for RMS average	unsigned short	R/W	0	40253
seconds_for_MAX_RMS	Seconds 1..60 for MAX RMS value. If the register is 0, then the absolute MAX RMS is given	unsigned short	R/W	0	40254
seconds_for_min_RMS	Seconds 1..60 for min RMS value. If the register is 0, then the absolute min RMS is given	unsigned short	R/W	0	40255
Energy_unit_factor	Variable for changing Energy measurement unit: 0 -> [Wh/10] 1 -> [Wh] 4 -> [KWh] 7 -> [MWh] 10 -> [GWh]	unsigned short	R/W	0	40256
Voltage_unbalance_setpoint	Setpoint for Voltage Unbalance Alarm	float	R/W	0	40259
Alarm_Register_start_address	DIGITAL OUTPUT 1: Modbus address address for alarm (starting from the modbus address of V_L1 N_V_L2 N_V_L3 N_ecc)	unsigned short	R/W	40833	40271
Alarm_delay	DIGITAL OUTPUT 1: Delay in ms for Alarm trigger	unsigned short	R/W	0	40272
Alarm_trip_value	DIGITAL OUTPUT 1: Alarm Threshold for "closed" and "open" condition OR first alarm Threshold for "within threshold" and "Outside threshold"	float	R/W	0	40273
Alarm_hysteresis	DIGITAL OUTPUT 1: Alarm Hysteresis	float	R/W	0	40275
Alarm_trip_value_2	DIGITAL OUTPUT 1: Second alarm Threshold for "within threshold" and "Outside threshold" condition	float	R/W	0	40277
Nominal_Star_Voltage	Nominal Star Voltage for Sag, Swell, Interruption monitoring [V]	float	R/W	230	40281
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	float	R/W	0.9	40283
Swell_percentage_level	Percentage over Nominal_Star_Voltage over which a Swell event is generated (default 1.1 = 110 %)	float	R/W	1.1	40285
Interruption_percentage_level	Percentage over Nominal_Star_Voltage under which an Interruption event is generated (default 0.1 = 10 %)	float	R/W	0.1	40287
Minimum_duration_cutoff	Sag, Swell or Interruption events must be above this cutoff to be displayed and saved [ms]	unsigned short	R/W	0	40291
Modbus_TCP_port	Port server modbus TCP	unsigned short	R/W	502	40292
Wifi_STA_SSID_target_0	Wi-Fi STA Access point SSID 0	char	R/W	F	40293
Wifi_STA_SSID_target_1	Wi-Fi STA Access point SSID 1	char	R/W	R	40294
Wifi_STA_SSID_target_2	Wi-Fi STA Access point SSID 2	char	R/W	I	40295
Wifi_STA_SSID_target_3	Wi-Fi STA Access point SSID 3	char	R/W	T	40296
Wifi_STA_SSID_target_4	Wi-Fi STA Access point SSID 4	char	R/W	Z	40297
Wifi_STA_SSID_target_5	Wi-Fi STA Access point SSID 5	char	R/W	I	40298
Wifi_STA_SSID_target_6	Wi-Fi STA Access point SSID 6	char	R/W	B	40299
Wifi_STA_SSID_target_7	Wi-Fi STA Access point SSID 7	char	R/W	o	40300
Wifi_STA_SSID_target_8	Wi-Fi STA Access point SSID 8	char	R/W	x	40301
Wifi_STA_SSID_target_9	Wi-Fi STA Access point SSID 9	char	R/W	o	40302
Wifi_STA_SSID_target_10	Wi-Fi STA Access point SSID 10	char	R/W	7	40303
Wifi_STA_SSID_target_11	Wi-Fi STA Access point SSID 11	char	R/W	5	40304

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Register Name	Description	Register Type	R/W	Default	Modbus Address
Wifi_STA_SSID_target_12	WiFi STA Access point SSID 12	char	R/W	3	40305
Wifi_STA_SSID_target_13	WiFi STA Access point SSID 13	char	R/W	0	40306
Wifi_STA_SSID_target_14	WiFi STA Access point SSID 14	char	R/W	0	40307
Wifi_STA_SSID_target_15	WiFi STA Access point SSID 15	char	R/W	P	40308
Wifi_STA_SSID_target_16	WiFi STA Access point SSID 16	char	R/W	U	40309
Wifi_STA_SSID_target_17	WiFi STA Access point SSID 17	char	R/W	0	40310
Wifi_STA_SSID_target_18	WiFi STA Access point SSID 18	char	R/W	0	40311
Wifi_STA_SSID_target_19	WiFi STA Access point SSID 19	char	R/W	0	40312
Wifi_STA_SSID_target_20	WiFi STA Access point SSID 20	char	R/W	0	40313
Wifi_STA_SSID_target_21	WiFi STA Access point SSID 21	char	R/W	0	40314
Wifi_STA_SSID_target_22	WiFi STA Access point SSID 22	char	R/W	0	40315
Wifi_STA_SSID_target_23	WiFi STA Access point SSID 23	char	R/W	0	40316
Wifi_STA_SSID_target_24	WiFi STA Access point SSID 24	char	R/W	0	40317
Wifi_STA_SSID_target_25	WiFi STA Access point SSID 25	char	R/W	0	40318
Wifi_STA_SSID_target_26	WiFi STA Access point SSID 26	char	R/W	0	40319
Wifi_STA_SSID_target_27	WiFi STA Access point SSID 27	char	R/W	0	40320
Wifi_STA_SSID_target_28	WiFi STA Access point SSID 28	char	R/W	0	40321
Wifi_STA_SSID_target_29	WiFi STA Access point SSID 29	char	R/W	0	40322
Wifi_STA_SSID_target_30	WiFi STA Access point SSID 30	char	R/W	0	40323
Wifi_STA_SSID_target_31	WiFi STA Access point SSID 31	char	R/W	0	40324
Wifi_STA_PASSWORD_target_0	WiFi STA Access point Password 0	char	WO	*	40325
Wifi_STA_PASSWORD_target_1	WiFi STA Access point Password 1	char	WO	*	40326
Wifi_STA_PASSWORD_target_2	WiFi STA Access point Password 2	char	WO	*	40327
Wifi_STA_PASSWORD_target_3	WiFi STA Access point Password 3	char	WO	*	40328
Wifi_STA_PASSWORD_target_4	WiFi STA Access point Password 4	char	WO	*	40329
Wifi_STA_PASSWORD_target_5	WiFi STA Access point Password 5	char	WO	*	40330
Wifi_STA_PASSWORD_target_6	WiFi STA Access point Password 6	char	WO	*	40331
Wifi_STA_PASSWORD_target_7	WiFi STA Access point Password 7	char	WO	*	40332
Wifi_STA_PASSWORD_target_8	WiFi STA Access point Password 8	char	WO	*	40333
Wifi_STA_PASSWORD_target_9	WiFi STA Access point Password 9	char	WO	*	40334
Wifi_STA_PASSWORD_target_10	WiFi STA Access point Password 10	char	WO	*	40335
Wifi_STA_PASSWORD_target_11	WiFi STA Access point Password 11	char	WO	*	40336
Wifi_STA_PASSWORD_target_12	WiFi STA Access point Password 12	char	WO	*	40337
Wifi_STA_PASSWORD_target_13	WiFi STA Access point Password 13	char	WO	*	40338
Wifi_STA_PASSWORD_target_14	WiFi STA Access point Password 14	char	WO	*	40339
Wifi_STA_PASSWORD_target_15	WiFi STA Access point Password 15	char	WO	*	40340
Wifi_STA_PASSWORD_target_16	WiFi STA Access point Password 16	char	WO	*	40341
Wifi_STA_PASSWORD_target_17	WiFi STA Access point Password 17	char	WO	*	40342
Wifi_STA_PASSWORD_target_18	WiFi STA Access point Password 18	char	WO	*	40343
Wifi_STA_PASSWORD_target_19	WiFi STA Access point Password 19	char	WO	*	40344
Wifi_STA_PASSWORD_target_20	WiFi STA Access point Password 20	char	WO	*	40345
Wifi_STA_PASSWORD_target_21	WiFi STA Access point Password 21	char	WO	*	40346
Wifi_STA_PASSWORD_target_22	WiFi STA Access point Password 22	char	WO	*	40347
Wifi_STA_PASSWORD_target_23	WiFi STA Access point Password 23	char	WO	*	40348
Wifi_STA_PASSWORD_target_24	WiFi STA Access point Password 24	char	WO	*	40349
Wifi_STA_PASSWORD_target_25	WiFi STA Access point Password 25	char	WO	*	40350
Wifi_STA_PASSWORD_target_26	WiFi STA Access point Password 26	char	WO	*	40351
Wifi_STA_PASSWORD_target_27	WiFi STA Access point Password 27	char	WO	*	40352
Wifi_STA_PASSWORD_target_28	WiFi STA Access point Password 28	char	WO	*	40353
Wifi_STA_PASSWORD_target_29	WiFi STA Access point Password 29	char	WO	*	40354
Wifi_STA_PASSWORD_target_30	WiFi STA Access point Password 30	char	WO	*	40355
Wifi_STA_PASSWORD_target_31	WiFi STA Access point Password 31	char	WO	*	40356
Wifi_STA_HOSTNAME_0	WiFi STA HOSTNAME set 0	char	R/W	E	40357
Wifi_STA_HOSTNAME_1	WiFi STA HOSTNAME set 1	char	R/W	M	40358
Wifi_STA_HOSTNAME_2	WiFi STA HOSTNAME set 2	char	R/W	T	40359
Wifi_STA_HOSTNAME_3	WiFi STA HOSTNAME set 3	char	R/W	1	40360
Wifi_STA_HOSTNAME_4	WiFi STA HOSTNAME set 4	char	R/W	3	40361
Wifi_STA_HOSTNAME_5	WiFi STA HOSTNAME set 5	char	R/W	0	40362
Wifi_STA_HOSTNAME_6	WiFi STA HOSTNAME set 6	char	R/W		40363
Wifi_STA_HOSTNAME_7	WiFi STA HOSTNAME set 7	char	R/W	W	40364
Wifi_STA_HOSTNAME_8	WiFi STA HOSTNAME set 8	char	R/W	I	40365
Wifi_STA_HOSTNAME_9	WiFi STA HOSTNAME set 9	char	R/W	F	40366
Wifi_STA_HOSTNAME_10	WiFi STA HOSTNAME set 10	char	R/W	I	40367
Wifi_STA_HOSTNAME_11	WiFi STA HOSTNAME set 11	char	R/W		40368
Wifi_STA_HOSTNAME_12	WiFi STA HOSTNAME set 12	char	R/W	S	40369
Wifi_STA_HOSTNAME_13	WiFi STA HOSTNAME set 13	char	R/W	T	40370
Wifi_STA_HOSTNAME_14	WiFi STA HOSTNAME set 14	char	R/W	A	40371
Wifi_STA_HOSTNAME_15	WiFi STA HOSTNAME set 15	char	R/W	0	40372
Wifi_STA_HOSTNAME_16	WiFi STA HOSTNAME set 16	char	R/W	0	40373
Wifi_STA_HOSTNAME_17	WiFi STA HOSTNAME set 17	char	R/W	0	40374
Wifi_STA_HOSTNAME_18	WiFi STA HOSTNAME set 18	char	R/W	0	40375
Wifi_STA_HOSTNAME_19	WiFi STA HOSTNAME set 19	char	R/W	0	40376
Wifi_STA_HOSTNAME_20	WiFi STA HOSTNAME set 20	char	R/W	0	40377
Wifi_STA_HOSTNAME_21	WiFi STA HOSTNAME set 21	char	R/W	0	40378
Wifi_STA_HOSTNAME_22	WiFi STA HOSTNAME set 22	char	R/W	0	40379
Wifi_STA_HOSTNAME_23	WiFi STA HOSTNAME set 23	char	R/W	0	40380
Wifi_STA_HOSTNAME_24	WiFi STA HOSTNAME set 24	char	R/W	0	40381
Wifi_STA_HOSTNAME_25	WiFi STA HOSTNAME set 25	char	R/W	0	40382
Wifi_STA_HOSTNAME_26	WiFi STA HOSTNAME set 26	char	R/W	0	40383
Wifi_STA_HOSTNAME_27	WiFi STA HOSTNAME set 27	char	R/W	0	40384
Wifi_STA_HOSTNAME_28	WiFi STA HOSTNAME set 28	char	R/W	0	40385
Wifi_STA_HOSTNAME_29	WiFi STA HOSTNAME set 29	char	R/W	0	40386
Wifi_STA_HOSTNAME_30	WiFi STA HOSTNAME set 30	char	R/W	0	40387
Wifi_STA_HOSTNAME_31	WiFi STA HOSTNAME set 31	char	R/W	0	40388
Wifi_STA_IP_0	WiFi STA IP static (DHCP off) 0	unsigned short	R/W	192	40389
Wifi_STA_IP_1	WiFi STA IP static (DHCP off) 1	unsigned short	R/W	168	40390
Wifi_STA_IP_2	WiFi STA IP static (DHCP off) 2	unsigned short	R/W	178	40391
Wifi_STA_IP_3	WiFi STA IP static (DHCP off) 3	unsigned short	R/W	200	40392
Wifi_STA_Netmask_0	WiFi STA NETMASK static (DHCP off) 0	unsigned short	R/W	255	40393
Wifi_STA_Netmask_1	WiFi STA NETMASK static (DHCP off) 1	unsigned short	R/W	255	40394
Wifi_STA_Netmask_2	WiFi STA NETMASK static (DHCP off) 2	unsigned short	R/W	255	40395
Wifi_STA_Netmask_3	WiFi STA NETMASK static (DHCP off) 3	unsigned short	R/W	0	40396
Wifi_STA_Gateway_0	WiFi STA GATEWAY static (DHCP off) 0	unsigned short	R/W	192	40397
Wifi_STA_Gateway_1	WiFi STA GATEWAY static (DHCP off) 1	unsigned short	R/W	168	40398
Wifi_STA_Gateway_2	WiFi STA GATEWAY static (DHCP off) 2	unsigned short	R/W	178	40399
Wifi_STA_Gateway_3	WiFi STA GATEWAY static (DHCP off) 3	unsigned short	R/W	200	40400
Wifi_STA_IP_assigned_by_dhcp_0	WiFi STA IP SET (DHCP on) 0	unsigned short	R/W	0	40401
Wifi_STA_IP_assigned_by_dhcp_1	WiFi STA IP SET (DHCP on) 1	unsigned short	R/W	0	40402
Wifi_STA_IP_assigned_by_dhcp_2	WiFi STA IP SET (DHCP on) 2	unsigned short	R/W	0	40403
Wifi_STA_IP_assigned_by_dhcp_3	WiFi STA IP SET (DHCP on) 3	unsigned short	R/W	0	40404
Wifi_STA_Netmask_assigned_by_dhcp_0	WiFi STA NETMASK SET (DHCP on) 0	unsigned short	R/W	0	40405
Wifi_STA_Netmask_assigned_by_dhcp_1	WiFi STA NETMASK SET (DHCP on) 1	unsigned short	R/W	0	40406
Wifi_STA_Netmask_assigned_by_dhcp_2	WiFi STA NETMASK SET (DHCP on) 2	unsigned short	R/W	0	40407
Wifi_STA_Netmask_assigned_by_dhcp_3	WiFi STA NETMASK SET (DHCP on) 3	unsigned short	R/W	0	40408
Wifi_STA_Gateway_assigned_by_dhcp_0	WiFi STA GATEWAY SET (DHCP on) 0	unsigned short	R/W	0	40409
Wifi_STA_Gateway_assigned_by_dhcp_1	WiFi STA GATEWAY SET (DHCP on) 1	unsigned short	R/W	0	40410
Wifi_STA_Gateway_assigned_by_dhcp_2	WiFi STA GATEWAY SET (DHCP on) 2	unsigned short	R/W	0	40411
Wifi_STA_Gateway_assigned_by_dhcp_3	WiFi STA GATEWAY SET (DHCP on) 3	unsigned short	R/W	0	40412
Wifi_AP_SSID_0	WiFi AP SSID 0	char	R/W	M	40413
Wifi_AP_SSID_1	WiFi AP SSID 1	char	R/W	Y	40414
Wifi_AP_SSID_2	WiFi AP SSID 2	char	R/W		40415
Wifi_AP_SSID_3	WiFi AP SSID 3	char	R/W	E	40416
Wifi_AP_SSID_4	WiFi AP SSID 4	char	R/W	M	40417
Wifi_AP_SSID_5	WiFi AP SSID 5	char	R/W	T	40418
Wifi_AP_SSID_6	WiFi AP SSID 6	char	R/W		40419
Wifi_AP_SSID_7	WiFi AP SSID 7	char	R/W	1	40420
Wifi_AP_SSID_8	WiFi AP SSID 8	char	R/W	3	40421
Wifi_AP_SSID_9	WiFi AP SSID 9	char	R/W	0	40422
Wifi_AP_SSID_10	WiFi AP SSID 10	char	R/W	0	40423
Wifi_AP_SSID_11	WiFi AP SSID 11	char	R/W	0	40424
Wifi_AP_SSID_12	WiFi AP SSID 12	char	R/W	0	40425



All versions

Only FULL version

R/W legend:

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EMT130\_MR Rev2



Register Name	Description	Register Type	R/W	Default	Modbus Address
Wifi_AP_SSID_13	WiFi AP SSID 13	char	R/W	0	40426
Wifi_AP_SSID_14	WiFi AP SSID 14	char	R/W	0	40427
Wifi_AP_SSID_15	WiFi AP SSID 15	char	R/W	0	40428
Wifi_AP_SSID_16	WiFi AP SSID 16	char	R/W	0	40429
Wifi_AP_SSID_17	WiFi AP SSID 17	char	R/W	0	40430
Wifi_AP_SSID_18	WiFi AP SSID 18	char	R/W	0	40431
Wifi_AP_SSID_19	WiFi AP SSID 19	char	R/W	0	40432
Wifi_AP_SSID_20	WiFi AP SSID 20	char	R/W	0	40433
Wifi_AP_SSID_21	WiFi AP SSID 21	char	R/W	0	40434
Wifi_AP_SSID_22	WiFi AP SSID 22	char	R/W	0	40435
Wifi_AP_SSID_23	WiFi AP SSID 23	char	R/W	0	40436
Wifi_AP_SSID_24	WiFi AP SSID 24	char	R/W	0	40437
Wifi_AP_SSID_25	WiFi AP SSID 25	char	R/W	0	40438
Wifi_AP_SSID_26	WiFi AP SSID 26	char	R/W	0	40439
Wifi_AP_SSID_27	WiFi AP SSID 27	char	R/W	0	40440
Wifi_AP_SSID_28	WiFi AP SSID 28	char	R/W	0	40441
Wifi_AP_SSID_29	WiFi AP SSID 29	char	R/W	0	40442
Wifi_AP_SSID_30	WiFi AP SSID 30	char	R/W	0	40443
Wifi_AP_SSID_31	WiFi AP SSID 31	char	R/W	0	40444
Wifi_AP_PASSWORD_0	WiFi AP PASSWORD 0	char	WO	1	40445
Wifi_AP_PASSWORD_1	WiFi AP PASSWORD 1	char	WO	2	40446
Wifi_AP_PASSWORD_2	WiFi AP PASSWORD 2	char	WO	3	40447
Wifi_AP_PASSWORD_3	WiFi AP PASSWORD 3	char	WO	4	40448
Wifi_AP_PASSWORD_4	WiFi AP PASSWORD 4	char	WO	5	40449
Wifi_AP_PASSWORD_5	WiFi AP PASSWORD 5	char	WO	6	40450
Wifi_AP_PASSWORD_6	WiFi AP PASSWORD 6	char	WO	7	40451
Wifi_AP_PASSWORD_7	WiFi AP PASSWORD 7	char	WO	8	40452
Wifi_AP_PASSWORD_8	WiFi AP PASSWORD 8	char	WO	9	40453
Wifi_AP_PASSWORD_9	WiFi AP PASSWORD 9	char	WO	0	40454
Wifi_AP_PASSWORD_10	WiFi AP PASSWORD 10	char	WO	0	40455
Wifi_AP_PASSWORD_11	WiFi AP PASSWORD 11	char	WO	0	40456
Wifi_AP_PASSWORD_12	WiFi AP PASSWORD 12	char	WO	0	40457
Wifi_AP_PASSWORD_13	WiFi AP PASSWORD 13	char	WO	0	40458
Wifi_AP_PASSWORD_14	WiFi AP PASSWORD 14	char	WO	0	40459
Wifi_AP_PASSWORD_15	WiFi AP PASSWORD 15	char	WO	0	40460
Wifi_AP_PASSWORD_16	WiFi AP PASSWORD 16	char	WO	0	40461
Wifi_AP_PASSWORD_17	WiFi AP PASSWORD 17	char	WO	0	40462
Wifi_AP_PASSWORD_18	WiFi AP PASSWORD 18	char	WO	0	40463
Wifi_AP_PASSWORD_19	WiFi AP PASSWORD 19	char	WO	0	40464
Wifi_AP_PASSWORD_20	WiFi AP PASSWORD 20	char	WO	0	40465
Wifi_AP_PASSWORD_21	WiFi AP PASSWORD 21	char	WO	0	40466
Wifi_AP_PASSWORD_22	WiFi AP PASSWORD 22	char	WO	0	40467
Wifi_AP_PASSWORD_23	WiFi AP PASSWORD 23	char	WO	0	40468
Wifi_AP_PASSWORD_24	WiFi AP PASSWORD 24	char	WO	0	40469
Wifi_AP_PASSWORD_25	WiFi AP PASSWORD 25	char	WO	0	40470
Wifi_AP_PASSWORD_26	WiFi AP PASSWORD 26	char	WO	0	40471
Wifi_AP_PASSWORD_27	WiFi AP PASSWORD 27	char	WO	0	40472
Wifi_AP_PASSWORD_28	WiFi AP PASSWORD 28	char	WO	0	40473
Wifi_AP_PASSWORD_29	WiFi AP PASSWORD 29	char	WO	0	40474
Wifi_AP_PASSWORD_30	WiFi AP PASSWORD 30	char	WO	0	40475
Wifi_AP_PASSWORD_31	WiFi AP PASSWORD 31	char	WO	0	40476
Wifi_AP_HOSTNAME_0	WiFi AP HOSTNAME set 0	char	R/W	E	40477
Wifi_AP_HOSTNAME_1	WiFi AP HOSTNAME set 1	char	R/W	M	40478
Wifi_AP_HOSTNAME_2	WiFi AP HOSTNAME set 2	char	R/W	T	40479
Wifi_AP_HOSTNAME_3	WiFi AP HOSTNAME set 3	char	R/W	1	40480
Wifi_AP_HOSTNAME_4	WiFi AP HOSTNAME set 4	char	R/W	3	40481
Wifi_AP_HOSTNAME_5	WiFi AP HOSTNAME set 5	char	R/W	0	40482
Wifi_AP_HOSTNAME_6	WiFi AP HOSTNAME set 6	char	R/W		40483
Wifi_AP_HOSTNAME_7	WiFi AP HOSTNAME set 7	char	R/W	W	40484
Wifi_AP_HOSTNAME_8	WiFi AP HOSTNAME set 8	char	R/W	I	40485
Wifi_AP_HOSTNAME_9	WiFi AP HOSTNAME set 9	char	R/W	F	40486
Wifi_AP_HOSTNAME_10	WiFi AP HOSTNAME set 10	char	R/W	I	40487
Wifi_AP_HOSTNAME_11	WiFi AP HOSTNAME set 11	char	R/W		40488
Wifi_AP_HOSTNAME_12	WiFi AP HOSTNAME set 12	char	R/W	A	40489
Wifi_AP_HOSTNAME_13	WiFi AP HOSTNAME set 13	char	R/W	P	40490
Wifi_AP_HOSTNAME_14	WiFi AP HOSTNAME set 14	char	R/W	0	40491
Wifi_AP_HOSTNAME_15	WiFi AP HOSTNAME set 15	char	R/W	0	40492
Wifi_AP_HOSTNAME_16	WiFi AP HOSTNAME set 16	char	R/W	0	40493
Wifi_AP_HOSTNAME_17	WiFi AP HOSTNAME set 17	char	R/W	0	40494
Wifi_AP_HOSTNAME_18	WiFi AP HOSTNAME set 18	char	R/W	0	40495
Wifi_AP_HOSTNAME_19	WiFi AP HOSTNAME set 19	char	R/W	0	40496
Wifi_AP_HOSTNAME_20	WiFi AP HOSTNAME set 20	char	R/W	0	40497
Wifi_AP_HOSTNAME_21	WiFi AP HOSTNAME set 21	char	R/W	0	40498
Wifi_AP_HOSTNAME_22	WiFi AP HOSTNAME set 22	char	R/W	0	40499
Wifi_AP_HOSTNAME_23	WiFi AP HOSTNAME set 23	char	R/W	0	40500
Wifi_AP_HOSTNAME_24	WiFi AP HOSTNAME set 24	char	R/W	0	40501
Wifi_AP_HOSTNAME_25	WiFi AP HOSTNAME set 25	char	R/W	0	40502
Wifi_AP_HOSTNAME_26	WiFi AP HOSTNAME set 26	char	R/W	0	40503
Wifi_AP_HOSTNAME_27	WiFi AP HOSTNAME set 27	char	R/W	0	40504
Wifi_AP_HOSTNAME_28	WiFi AP HOSTNAME set 28	char	R/W	0	40505
Wifi_AP_HOSTNAME_29	WiFi AP HOSTNAME set 29	char	R/W	0	40506
Wifi_AP_HOSTNAME_30	WiFi AP HOSTNAME set 30	char	R/W	0	40507
Wifi_AP_HOSTNAME_31	WiFi AP HOSTNAME set 31	char	R/W	0	40508
Wifi_AP_IP_0	WiFi AP IP 0	unsigned short	R/W	192	40509
Wifi_AP_IP_1	WiFi AP IP 1	unsigned short	R/W	168	40510
Wifi_AP_IP_2	WiFi AP IP 2	unsigned short	R/W	4	40511
Wifi_AP_IP_3	WiFi AP IP 3	unsigned short	R/W	1	40512
Wifi_AP_Netmask_0	WiFi AP NETMASK 0	unsigned short	R/W	255	40513
Wifi_AP_Netmask_1	WiFi AP NETMASK 1	unsigned short	R/W	255	40514
Wifi_AP_Netmask_2	WiFi AP NETMASK 2	unsigned short	R/W	255	40515
Wifi_AP_Netmask_3	WiFi AP NETMASK 3	unsigned short	R/W	0	40516
Wifi_AP_Gateway_0	WiFi AP GATEWAY 0	unsigned short	R/W	192	40517
Wifi_AP_Gateway_1	WiFi AP GATEWAY 1	unsigned short	R/W	168	40518
Wifi_AP_Gateway_2	WiFi AP GATEWAY 2	unsigned short	R/W	4	40519
Wifi_AP_Gateway_3	WiFi AP GATEWAY 3	unsigned short	R/W	1	40520
Communications_settings	Bk 0: Don't care Bk 1: Wi-Fi STA DHCP 0 → Disabled (static address from registers) 1 → Enabled (default)	unsigned long	R/W	3	40577
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'	signed long	R/W	390	40579
cutoff_phase_harmonic	cutoff for harmonic phase: if the AMPLITUDE is less than the cutoff, the phase is 0	float	R/W	0	40621
logging_register_address_1	Modbus Address to do logging in position 1	unsigned short	R/W	40000	40631
logging_register_address_2	Modbus Address to do logging in position 2	unsigned short	R/W	40000	40632
logging_register_address_3	Modbus Address to do logging in position 3	unsigned short	R/W	40000	40633
logging_register_address_4	Modbus Address to do logging in position 4	unsigned short	R/W	40000	40634
logging_register_address_5	Modbus Address to do logging in position 5	unsigned short	R/W	40000	40635
logging_register_address_6	Modbus Address to do logging in position 6	unsigned short	R/W	40000	40636
logging_register_address_7	Modbus Address to do logging in position 7	unsigned short	R/W	40000	40637
logging_register_address_8	Modbus Address to do logging in position 8	unsigned short	R/W	40000	40638
logging_register_address_9	Modbus Address to do logging in position 9	unsigned short	R/W	40000	40639
logging_register_address_10	Modbus Address to do logging in position 10	unsigned short	R/W	40000	40640
logging_register_address_11	Modbus Address to do logging in position 11	unsigned short	R/W	40000	40641
logging_register_address_12	Modbus Address to do logging in position 12	unsigned short	R/W	40000	40642
logging_register_address_13	Modbus Address to do logging in position 13	unsigned short	R/W	40000	40643
logging_register_address_14	Modbus Address to do logging in position 14	unsigned short	R/W	40000	40644
logging_register_address_15	Modbus Address to do logging in position 15	unsigned short	R/W	40000	40645
logging_register_address_16	Modbus Address to do logging in position 16	unsigned short	R/W	40000	40646
logging_register_address_17	Modbus Address to do logging in position 17	unsigned short	R/W	40000	40647
logging_register_address_18	Modbus Address to do logging in position 18	unsigned short	R/W	40000	40648
logging_register_address_19	Modbus Address to do logging in position 19	unsigned short	R/W	40000	40649



All versions

Only FULL version

R/W legend:

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

EMT130\_MR Rev2



Register Name	Description	Register Type	R/W	Default	Modbus Address
logging_register_address_20	Modbus Address to do logging in position 20	unsigned short	R/W	40000	40650
logging_period_s	logging period in seconds	unsigned short	R/W	5	40651
mqtt_logging_register_address_1	Modbus Address used to log data with MQTT 1	unsigned short	R/W	40000	40652
mqtt_logging_register_address_2	Modbus Address used to log data with MQTT 2	unsigned short	R/W	40000	40653
mqtt_logging_register_address_3	Modbus Address used to log data with MQTT 3	unsigned short	R/W	40000	40654
mqtt_logging_register_address_4	Modbus Address used to log data with MQTT 4	unsigned short	R/W	40000	40655
mqtt_logging_register_address_5	Modbus Address used to log data with MQTT 5	unsigned short	R/W	40000	40656
mqtt_logging_register_address_6	Modbus Address used to log data with MQTT 6	unsigned short	R/W	40000	40657
mqtt_logging_register_address_7	Modbus Address used to log data with MQTT 7	unsigned short	R/W	40000	40658
mqtt_logging_register_address_8	Modbus Address used to log data with MQTT 8	unsigned short	R/W	40000	40659
mqtt_logging_register_address_9	Modbus Address used to log data with MQTT 9	unsigned short	R/W	40000	40660
mqtt_logging_register_address_10	Modbus Address used to log data with MQTT 10	unsigned short	R/W	40000	40661
mqtt_logging_register_address_11	Modbus Address used to log data with MQTT 11	unsigned short	R/W	40000	40662
mqtt_logging_register_address_12	Modbus Address used to log data with MQTT 12	unsigned short	R/W	40000	40663
mqtt_logging_register_address_13	Modbus Address used to log data with MQTT 13	unsigned short	R/W	40000	40664
mqtt_logging_register_address_14	Modbus Address used to log data with MQTT 14	unsigned short	R/W	40000	40665
mqtt_logging_register_address_15	Modbus Address used to log data with MQTT 15	unsigned short	R/W	40000	40666
mqtt_logging_register_address_16	Modbus Address used to log data with MQTT 16	unsigned short	R/W	40000	40667
mqtt_logging_register_address_17	Modbus Address used to log data with MQTT 17	unsigned short	R/W	40000	40668
mqtt_logging_register_address_18	Modbus Address used to log data with MQTT 18	unsigned short	R/W	40000	40669
mqtt_logging_register_address_19	Modbus Address used to log data with MQTT 19	unsigned short	R/W	40000	40670
mqtt_logging_register_address_20	Modbus Address used to log data with MQTT 20	unsigned short	R/W	40000	40671
mqtt_logging_period_s	mqtt publish period	unsigned short	R/W	1	40672
webserver_username_0	webserver authentication username char 0	char	R/W	a	40674
webserver_username_1	webserver authentication username char 1	char	R/W	d	40675
webserver_username_2	webserver authentication username char 2	char	R/W	m	40676
webserver_username_3	webserver authentication username char 3	char	R/W	i	40677
webserver_username_4	webserver authentication username char 4	char	R/W	n	40678
webserver_username_5	webserver authentication username char 5	char	R/W	o	40679
webserver_username_6	webserver authentication username char 6	char	R/W	o	40680
webserver_username_7	webserver authentication username char 7	char	R/W	o	40681
webserver_username_8	webserver authentication username char 8	char	R/W	o	40682
webserver_username_9	webserver authentication username char 9	char	R/W	o	40683
webserver_username_10	webserver authentication username char 10	char	R/W	o	40684
webserver_username_11	webserver authentication username char 11	char	R/W	o	40685
webserver_username_12	webserver authentication username char 12	char	R/W	o	40686
webserver_username_13	webserver authentication username char 13	char	R/W	o	40687
webserver_username_14	webserver authentication username char 14	char	R/W	o	40688
webserver_username_15	webserver authentication username char 15	char	R/W	o	40689
webserver_password_0	webserver authentication password char 0	char	WO	a	40690
webserver_password_1	webserver authentication password char 1	char	WO	d	40691
webserver_password_2	webserver authentication password char 2	char	WO	m	40692
webserver_password_3	webserver authentication password char 3	char	WO	i	40693
webserver_password_4	webserver authentication password char 4	char	WO	n	40694
webserver_password_5	webserver authentication password char 5	char	WO	o	40695
webserver_password_6	webserver authentication password char 6	char	WO	o	40696
webserver_password_7	webserver authentication password char 7	char	WO	o	40697
webserver_password_8	webserver authentication password char 8	char	WO	o	40698
webserver_password_9	webserver authentication password char 9	char	WO	o	40699
webserver_password_10	webserver authentication password char 10	char	WO	o	40700
webserver_password_11	webserver authentication password char 11	char	WO	o	40701
webserver_password_12	webserver authentication password char 12	char	WO	o	40702
webserver_password_13	webserver authentication password char 13	char	WO	o	40703
webserver_password_14	webserver authentication password char 14	char	WO	o	40704
webserver_password_15	webserver authentication password char 15	char	WO	o	40705
wifi_tx_power	Wifi Strength of our antenna in dBm	signed short	R/W	20	40715
Pulses_per_kWh	Pulses per kWh impulsive digital output	unsigned short	R/W	1000	40716
<b>Energies</b>					
KWh1	Active energy line 1 [Wh tenth]	signed long long	R/W	0	40721
KWh2	Active energy line 2 [Wh tenth]	signed long long	R/W	0	40725
KWh3	Active energy line 3 [Wh tenth]	signed long long	R/W	0	40729
KWh_SUM	Active energy three phase [Wh tenth]	signed long long	R/W	0	40733
KWh1_Plus	Positive Active energy line 1 [Wh tenth]	signed long long	R/W	0	40737
KWh2_Plus	Positive Active energy line 2 [Wh tenth]	signed long long	R/W	0	40741
KWh3_Plus	Positive Active energy line 3 [Wh tenth]	signed long long	R/W	0	40745
KWh_SUM_Plus	Positive Active energy three phase [Wh tenth]	signed long long	R/W	0	40749
KWh1_Neg	Negative Active energy line 1 [Wh tenth]	signed long long	R/W	0	40753
KWh2_Neg	Negative Active energy line 2 [Wh tenth]	signed long long	R/W	0	40757
KWh3_Neg	Negative Active energy line 3 [Wh tenth]	signed long long	R/W	0	40761
KWh_SUM_Neg	Negative Active energy three phase [Wh tenth]	signed long long	R/W	0	40765
KVARh1	Reactive energy line 1 [VARh tenth]	signed long long	R/W	0	40769
KVARh2	Reactive energy line 2 [VARh tenth]	signed long long	R/W	0	40773
KVARh3	Reactive energy line 3 [VARh tenth]	signed long long	R/W	0	40777
KVARh_SUM	Reactive energy three phase [VARh tenth]	signed long long	R/W	0	40781
KVARh1_inductive_positive	Inductive (positive P) Reactive energy line 1 [VARh tenth]	signed long long	R/W	0	40785
KVARh2_inductive_positive	Inductive (positive P) Reactive energy line 2 [VARh tenth]	signed long long	R/W	0	40789
KVARh3_inductive_positive	Inductive (positive P) Reactive energy line 3 [VARh tenth]	signed long long	R/W	0	40793
KVARh_SUM_inductive_positive	Inductive (positive P) Reactive energy three phase [VARh tenth]	signed long long	R/W	0	40797
KVARh1_inductive_negative	Inductive (negative P) Reactive energy line 1 [VARh tenth]	signed long long	R/W	0	40801
KVARh2_inductive_negative	Inductive (negative P) Reactive energy line 2 [VARh tenth]	signed long long	R/W	0	40805
KVARh3_inductive_negative	Inductive (negative P) Reactive energy line 3 [VARh tenth]	signed long long	R/W	0	40809
KVARh_SUM_inductive_negative	Inductive (negative P) Reactive energy three phase [VARh tenth]	signed long long	R/W	0	40813
KVARh1_capacitive_positive	Capacitive (positive P) Reactive energy line 1 [VARh tenth]	signed long long	R/W	0	40817
KVARh2_capacitive_positive	Capacitive (positive P) Reactive energy line 2 [VARh tenth]	signed long long	R/W	0	40821
KVARh3_capacitive_positive	Capacitive (positive P) Reactive energy line 3 [VARh tenth]	signed long long	R/W	0	40825
KVARh_SUM_capacitive_positive	Capacitive (positive P) Reactive energy three phase [VARh tenth]	signed long long	R/W	0	40829
KVARh1_capacitive_negative	Capacitive (negative P) Reactive energy line 1 [VARh tenth]	signed long long	R/W	0	40833
KVARh2_capacitive_negative	Capacitive (negative P) Reactive energy line 2 [VARh tenth]	signed long long	R/W	0	40837
KVARh3_capacitive_negative	Capacitive (negative P) Reactive energy line 3 [VARh tenth]	signed long long	R/W	0	40841
KVARh_SUM_capacitive_negative	Capacitive (negative P) Reactive energy three phase [VARh tenth]	signed long long	R/W	0	40845
KVAh1	Apparent energy line 1 [VAh tenth]	signed long long	R/W	0	40849
KVAh2	Apparent energy line 2 [VAh tenth]	signed long long	R/W	0	40853
KVAh3	Apparent energy line 3 [VAh tenth]	signed long long	R/W	0	40857
KVAh_SUM	Apparent energy three phase [VAh tenth]	signed long long	R/W	0	40861
Wh_storage_count	Number of Wh flash savings (every 1 minute)	unsigned long long	RO	0	40865
Working_time	Working time of the device [mins]	unsigned long long	RO	0	40869
Communication_status	Bit 0: Wifi Sta Connected 0 → Not Connected (default) 1 → Connected  Bit 1: Don't care  Bit 2: Connected cloud service 0 → Not Connected (default) 1 → Connected	unsigned long	RO	0	40891
<b>Realtime measurement</b>					

All versions  
Only FULL version

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



Register Name	Description	Register Type	R/W	Default	Modbus Address
Status_1	<pre> //STATUS_1 bit #define FLASH_SETTINGS_ERROR 0x00000001 #define FLASH_CALIBRATION_ERROR 0x00000002 #define I1_OVER_RANGE 0x00000004 #define I1_UNDER_RANGE 0x00000008 #define I2_OVER_RANGE 0x00000010 #define I2_UNDER_RANGE 0x00000020 #define I3_OVER_RANGE 0x00000040 #define I3_UNDER_RANGE 0x00000080 #define V1_OVER_RANGE 0x00000100 #define V1_UNDER_RANGE 0x00000200 #define V2_OVER_RANGE 0x00000400 #define V2_UNDER_RANGE 0x00000800 #define V3_OVER_RANGE 0x00001000 #define V3_UNDER_RANGE 0x00002000 #define ZX_DETECTING 0x00004000 #define SWITCH_OPEN 0x00008000 #define WH_STORING_ERROR 0x00010000 #define BUZZER_ON 0x00020000 #define ALARM_TRIGGER_REQUEST 0x00080000 #define PF1_INDUCTIVE 0x10000000 #define PF2_INDUCTIVE 0x20000000 #define PF3_INDUCTIVE 0x40000000 </pre>	unsigned long	RO	0	40897
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 0x00800000 #define ERROR_TOUCH_SENSOR 0x01000000 #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 </pre>	unsigned long	RO	0	40899
Status_3	<pre> Bit 0: Wifi Sta Connected 0 -&gt; Not Connected (default) 1 -&gt; Connected </pre>	unsigned long	RO	0	40901
Command	<pre> //comandi da scrivere sul registro COMMAND #define COMANDO_SALVATAGGIO_FLASH_SOLO_SETTAGGI 0xC1C0U #define COMANDO_SALVATAGGIO_FLASH_SETTAGGI_E_NFC 0xF1C0U #define COMANDO_RESET 0xC1ADU #define COMANDO_SAVE_ENERGY 0xBABAU #define COMANDO_LEGGI_EVENTI_SAG 0xE000U #define COMANDO_LEGGI_EVENTI_SWELL 0xE100U #define COMANDO_LEGGI_EVENTI_INTERRUPTIO 0xE200U #define COMANDO_RESET_EVENTI_SAG 0xE300U #define COMANDO_RESET_EVENTI_SWELL 0xE400U #define COMANDO_RESET_EVENTI_INTERRUPTIO 0xE500U #define COMANDO_RESET_MAX_DEMAND 0xF000U </pre>	unsigned short	R/W	0	40906
V_L1_N	RMS star voltage L1-N [V]	float	RO	0	40907
V_L2_N	RMS star voltage L2-N [V]	float	RO	0	40909
V_L3_N	RMS star voltage L3-N [V]	float	RO	0	40911
V_STAR_AVG	RMS star avg value voltage [V]	float	RO	0	40913
V_L1_L2	RMS line voltage L1-L2 [V]	float	RO	0	40915
V_L2_L3	RMS line voltage L2-L3 [V]	float	RO	0	40917
V_L3_L1	RMS line voltage L3-L1 [V]	float	RO	0	40919
V_LINE_AVG	RMS line avg value voltage [V]	float	RO	0	40921
I_L1	RMS line current L1	float	RO	0	40923
I_L2	RMS line current L2	float	RO	0	40925
I_L3	RMS line current L3	float	RO	0	40927
I_N	RMS line current N (if 1 or 2 TA connection, I_N = 0)	float	RO	0	40929
I_AVG	RMS avg value current (excluding neutral current I_N)	float	RO	0	40931
P1	RMS active power line 1 [W]	float	RO	0	40933
P2	RMS active power line 2 [W]	float	RO	0	40935
P3	RMS active power line 3 [W]	float	RO	0	40937
P_SUM	RMS sum active power [W]	float	RO	0	40939
Q1	RMS reactive power line 1 [VAR]	float	RO	0	40941
Q2	RMS reactive power line 2 [VAR]	float	RO	0	40943
Q3	RMS reactive power line 3 [VAR]	float	RO	0	40945
Q_SUM	RMS sum reactive power [VAR]	float	RO	0	40947
S1	RMS apparent power line 1 [VAR]	float	RO	0	40949
S2	RMS apparent power line 2 [VAR]	float	RO	0	40951
S3	RMS apparent power line 3 [VAR]	float	RO	0	40953
S_SUM	RMS sum apparent power [VAR]	float	RO	0	40955
PF1	Power Factor line 1	float	RO	0	40957
PF2	Power Factor line 2	float	RO	0	40959
PF3	Power Factor line 3	float	RO	0	40961
PF_3PH	Three Phase Power Factor	float	RO	0	40963
CF1	Crest Factor line 1	float	RO	0	40965
CF2	Crest Factor line 2	float	RO	0	40967
CF3	Crest Factor line 3	float	RO	0	40969
CF_N	Crest Factor Neutral	float	RO	0	40971
Frequency	Frequency [Hz]	float	RO	0	40973
V_L1_N_peak	Star voltage L1-N peak [V]	float	R/W	0	40975
V_L2_N_peak	Star voltage L2-N peak [V]	float	R/W	0	40977
V_L3_N_peak	Star voltage L3-N peak [V]	float	R/W	0	40979
V_L1_L2_peak	Line voltage L1-L2 peak [V]	float	R/W	0	40981
V_L2_L3_peak	Line voltage L2-L3 peak [V]	float	R/W	0	40983
V_L3_L1_peak	Line voltage L3-L1 peak [V]	float	R/W	0	40985
I_L1_peak	L1 current peak	float	R/W	0	40987
I_L2_peak	L2 current peak	float	R/W	0	40989
I_L3_peak	L3 current peak	float	R/W	0	40991
I_N_peak	N current peak	float	R/W	0	40993
TAN_FI_1	Tangent@line 1 (+ inductive, - capacitive)	float	RO	0	41057
TAN_FI_2	Tangent@line 2 (+ inductive, - capacitive)	float	RO	0	41059
TAN_FI_3	Tangent@line 3 (+ inductive, - capacitive)	float	RO	0	41061
TAN_FI_AVG	Average Tangent@(+ inductive, - capacitive)	float	RO	0	41063
Phase_Order	L1, L2, L3 = 0; L1, L3, L2 = 1	float	RO	0	41065
Internal_temperature	Internal Temperature [°C]	float	RO	0	41067
<b>Average, MAX and minimum value</b>					
V_L1_N_RMS_AVG	Star voltage L1 N RMS average [V] over "seconds for mean RMS"	float	RO	0	41069
V_L1_N_RMS_MAX	Star voltage L1 N MAX RMS [V] over last "seconds for MAX RMS"	float	RO	0	41071
V_L1_N_RMS_min	Star voltage L1 N Min RMS [V] over last "seconds for min RMS"	float	RO	100000	41073
V_L2_N_RMS_AVG	Star voltage L2 N RMS average [V] over "seconds for mean RMS"	float	RO	0	41075
V_L2_N_RMS_MAX	Star voltage L2 N MAX RMS [V] over last "seconds_for_MAX_RMS"	float	RO	0	41077
V_L2_N_RMS_min	Star voltage L2 N Min RMS [V] over last "seconds for min RMS"	float	RO	100000	41079
V_L3_N_RMS_AVG	Star voltage L3 N RMS average [V] over "seconds for mean RMS"	float	RO	0	41081
V_L3_N_RMS_MAX	Star voltage L3 N MAX RMS [V] over last "seconds for MAX RMS"	float	RO	0	41083
V_L3_N_RMS_min	Star voltage L3 N Min RMS [V] over last "seconds for min RMS"	float	RO	100000	41085
V_STAR_AVG_RMS_AVG	Star voltage AVG RMS average [V] over "seconds_for_mean_RMS"	float	RO	0	41087
V_STAR_AVG_RMS_MAX	Star voltage AVG MAX RMS [V] over last "seconds for MAX_RMS"	float	RO	0	41089
V_STAR_AVG_RMS_min	Star voltage AVG Min RMS [V] over last "seconds for min RMS"	float	RO	100000	41091
V_L1_L2_RMS_AVG	Line voltage L1-Line voltage L2-Line voltage L3-L1 RMS average [V] over "seconds for mean RMS"	float	RO	0	41093

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

Register Name	Description	Register Type	R/W	Default	Modbus Address
V L1 L2 RMS MAX	Line voltage L1-Line voltage L2-Line voltage L3-L1 MAX RMS [V] over last seconds for MAX RMS"	float	RO	0	41095
V L1 L2 RMS min	Line voltage L1-Line voltage L2-Line voltage L3-L1 Min RMS [V] over last seconds for min RMS"	float	RO	100000	41097
V L2 L3 RMS AVG	Line voltage L2-Line voltage L3-L1 RMS average [V] over seconds for mean RMS"	float	RO	0	41099
V L2 L3 RMS MAX	Line voltage L2-Line voltage L3-L1 MAX RMS [V] over last seconds for MAX RMS"	float	RO	0	41101
V L2 L3 RMS min	Line voltage L2-Line voltage L3-L1 Min RMS [V] over last seconds for min RMS"	float	RO	100000	41103
V L3 L1 RMS AVG	Line voltage L3-L1 RMS average [V] over seconds for mean RMS"	float	RO	0	41105
V L3 L1 RMS MAX	Line voltage L3-L1 MAX RMS [V] over last seconds for MAX RMS"	float	RO	0	41107
V L3 L1 RMS min	Line voltage L3-L1 Min RMS [V] over last seconds for min RMS"	float	RO	100000	41109
V LINE AVG RMS AVG	Line voltage AVG RMS average [V] over seconds for mean RMS"	float	RO	0	41111
V LINE AVG RMS MAX	Line voltage AVG MAX RMS [V] over last seconds for MAX RMS"	float	RO	0	41113
V LINE AVG RMS min	Line voltage AVG Min RMS [V] over last seconds for min RMS"	float	RO	100000	41115
I L1 RMS AVG	L1 RMS average over seconds for mean RMS"	float	RO	0	41117
I L1 RMS MAX	L1 MAX RMS over last seconds for MAX RMS"	float	RO	0	41119
I L1 RMS min	L1 Min RMS over last seconds for min RMS"	float	RO	100000	41121
I L2 RMS AVG	L2 RMS average over seconds for mean RMS"	float	RO	0	41123
I L2 RMS MAX	L2 MAX RMS over last seconds for MAX RMS"	float	RO	0	41125
I L2 RMS min	L2 Min RMS over last seconds for min RMS"	float	RO	100000	41127
I L3 RMS AVG	L3 RMS average over seconds for mean RMS"	float	RO	0	41129
I L3 RMS MAX	L3 MAX RMS over last seconds for MAX RMS"	float	RO	0	41131
I L3 RMS min	L3 Min RMS over last seconds for min RMS"	float	RO	100000	41133
I N RMS AVG	N RMS average over seconds for mean RMS"	float	RO	0	41135
I N RMS MAX	N MAX RMS over last seconds for MAX RMS"	float	RO	0	41137
I N RMS min	N Min RMS over last seconds for min RMS"	float	RO	100000	41139
I AVG RMS AVG	I AVG RMS average over seconds for mean RMS"	float	RO	0	41141
I AVG RMS MAX	I AVG MAX RMS over last seconds for MAX RMS"	float	RO	0	41143
I AVG RMS min	I AVG Min RMS over last seconds for min RMS"	float	RO	100000	41145
P1 RMS AVG	P1 RMS average [W] over seconds for mean RMS"	float	RO	0	41147
P1 RMS MAX	P1 MAX RMS [W] over last seconds for MAX RMS"	float	RO	0	41149
P1 RMS min	P1 Min RMS [W] over last seconds for min RMS"	float	RO	100000	41151
P2 RMS AVG	P2 RMS average [W] over seconds for mean RMS"	float	RO	0	41153
P2 RMS MAX	P2 MAX RMS [W] over last seconds for MAX RMS"	float	RO	0	41155
P2 RMS min	P2 Min RMS [W] over last seconds for min RMS"	float	RO	100000	41157
P3 RMS AVG	P3 RMS average [W] over seconds for mean RMS"	float	RO	0	41159
P3 RMS MAX	P3 MAX RMS [W] over last seconds for MAX RMS"	float	RO	0	41161
P3 RMS min	P3 Min RMS [W] over last seconds for min RMS"	float	RO	100000	41163
P SUM RMS AVG	P SUM RMS average [W] over seconds for mean RMS"	float	RO	0	41165
P SUM RMS MAX	P SUM MAX RMS [W] over last seconds for MAX RMS"	float	RO	0	41167
P SUM RMS min	P SUM Min RMS [W] over last seconds for min RMS"	float	RO	100000	41169
Q1 RMS AVG	Q1 RMS average [VAR] over seconds for mean RMS"	float	RO	0	41171
Q1 RMS MAX	Q1 MAX RMS [VAR] over last seconds for MAX RMS"	float	RO	0	41173
Q1 RMS min	Q1 Min RMS [VAR] over last seconds for min RMS"	float	RO	100000	41175
Q2 RMS AVG	Q2 RMS average [VAR] over seconds for mean RMS"	float	RO	0	41177
Q2 RMS MAX	Q2 MAX RMS [VAR] over last seconds for MAX RMS"	float	RO	0	41179
Q2 RMS min	Q2 Min RMS [VAR] over last seconds for min RMS"	float	RO	100000	41181
Q3 RMS AVG	Q3 RMS average [VAR] over seconds for mean RMS"	float	RO	0	41183
Q3 RMS MAX	Q3 MAX RMS [VAR] over last seconds for MAX RMS"	float	RO	0	41185
Q3 RMS min	Q3 Min RMS [VAR] over last seconds for min RMS"	float	RO	100000	41187
Q SUM RMS AVG	Q SUM RMS average [VAR] over seconds for mean RMS"	float	RO	0	41189
Q SUM RMS MAX	Q SUM MAX RMS [VAR] over last seconds for MAX RMS"	float	RO	0	41191
Q SUM RMS min	Q SUM Min RMS [VAR] over last seconds for min RMS"	float	RO	100000	41193
S1 RMS AVG	S1 RMS average [VA] over seconds for mean RMS"	float	RO	0	41195
S1 RMS MAX	S1 MAX RMS [VA] over last seconds for MAX RMS"	float	RO	0	41197
S1 RMS min	S1 Min RMS [VA] over last seconds for min RMS"	float	RO	100000	41199
S2 RMS AVG	S2 RMS average [VA] over seconds for mean RMS"	float	RO	0	41201
S2 RMS MAX	S2 MAX RMS [VA] over last seconds for MAX RMS"	float	RO	0	41203
S2 RMS min	S2 Min RMS [VA] over last seconds for min RMS"	float	RO	100000	41205
S3 RMS AVG	S3 RMS average [VA] over seconds for mean RMS"	float	RO	0	41207
S3 RMS MAX	S3 MAX RMS [VA] over last seconds for MAX RMS"	float	RO	0	41209
S3 RMS min	S3 Min RMS [VA] over last seconds for min RMS"	float	RO	100000	41211
S SUM RMS AVG	S SUM RMS average [VA] over seconds for mean RMS"	float	RO	0	41213
S SUM RMS MAX	S SUM MAX RMS [VA] over last seconds for MAX RMS"	float	RO	0	41215
S SUM RMS min	S SUM Min RMS [VA] over last seconds for min RMS"	float	RO	100000	41217
PF1 RMS AVG	PF1 RMS average over seconds for mean RMS"	float	RO	0	41219
PF1 RMS MAX	PF1 MAX RMS over last seconds for MAX RMS"	float	RO	0	41221
PF1 RMS min	PF1 Min RMS over last seconds for min RMS"	float	RO	100000	41223
PF2 RMS AVG	PF2 RMS average over seconds for mean RMS"	float	RO	0	41225
PF2 RMS MAX	PF2 MAX RMS over last seconds for MAX RMS"	float	RO	0	41227
PF2 RMS min	PF2 Min RMS over last seconds for min RMS"	float	RO	100000	41229
PF3 RMS AVG	PF3 RMS average over seconds for mean RMS"	float	RO	0	41231
PF3 RMS MAX	PF3 MAX RMS over last seconds for MAX RMS"	float	RO	0	41233
PF3 RMS min	PF3 Min RMS over last seconds for min RMS"	float	RO	100000	41235
PF SUM RMS AVG	PF SUM RMS average over seconds for mean RMS"	float	RO	0	41237
PF SUM RMS MAX	PF SUM MAX RMS over last seconds for MAX RMS"	float	RO	0	41239
PF SUM RMS min	PF SUM Min RMS over last seconds for min RMS"	float	RO	100000	41241
CF1 RMS AVG	CF1 RMS average over seconds for mean RMS"	float	RO	0	41243
CF1 RMS MAX	CF1 MAX RMS over last seconds for MAX RMS"	float	RO	0	41245
CF1 RMS min	CF1 Min RMS over last seconds for min RMS"	float	RO	100000	41247
CF2 RMS AVG	CF2 RMS average over seconds for mean RMS"	float	RO	0	41249
CF2 RMS MAX	CF2 MAX RMS over last seconds for MAX RMS"	float	RO	0	41251
CF2 RMS min	CF2 Min RMS over last seconds for min RMS"	float	RO	100000	41253
CF3 RMS AVG	CF3 RMS average over seconds for mean RMS"	float	RO	0	41255
CF3 RMS MAX	CF3 MAX RMS over last seconds for MAX RMS"	float	RO	0	41257
CF3 RMS min	CF3 Min RMS over last seconds for min RMS"	float	RO	100000	41259
CF N RMS AVG	CF N RMS average over seconds for mean RMS"	float	RO	0	41261
CF N RMS MAX	CF N MAX RMS over last seconds for MAX RMS"	float	RO	0	41263
CF N RMS min	CF N Min RMS over last seconds for min RMS"	float	RO	100000	41265
Frequency RMS AVG	Frequency average over seconds for mean RMS"	float	RO	0	41267
Frequency RMS MAX	Frequency MAX over last seconds for MAX RMS"	float	RO	0	41269
Frequency RMS min	Frequency Min over last seconds for min RMS"	float	RO	100000	41271
P1 Tot AVG	Average total Power over minute for Max and AVG demand" for P1	float	RO	0	41281
P2 Tot AVG	Average total Power over minute for Max and AVG demand" for P2	float	RO	0	41283
P3 Tot AVG	Average total Power over minute for Max and AVG demand" for P3	float	RO	0	41285
P SUM Tot AVG	Average total Power over minute for Max and AVG demand" for P three phase	float	RO	0	41287
P1 Plus AVG	Average positive Power over minute for Max and AVG demand" for P1	float	RO	0	41289
P2 Plus AVG	Average positive Power over minute for Max and AVG demand" for P2	float	RO	0	41291
P3 Plus AVG	Average positive Power over minute for Max and AVG demand" for P3	float	RO	0	41293
P SUM Plus AVG	Average positive Power over minute for Max and AVG demand" for P three phase	float	RO	0	41295
P1 Neg AVG	Average Negative Power over minute for Max and AVG demand" for P1	float	RO	0	41297
P2 Neg AVG	Average Negative Power over minute for Max and AVG demand" for P2	float	RO	0	41299
P3 Neg AVG	Average Negative Power over minute for Max and AVG demand" for P3	float	RO	0	41301
P SUM Neg AVG	Average Negative Power over minute for Max and AVG demand" for P three phase	float	RO	0	41303
Q1 Plus AVG ind	Average Reactive Inductive Power with positive active power over minute for Max and AVG demand" for Q1	float	RO	0	41305
Q2 Plus AVG ind	Average Reactive Inductive Power with positive active power over minute for Max and AVG demand" for Q2	float	RO	0	41307
Q3 Plus AVG ind	Average Reactive Inductive Power with positive active power over minute for Max and AVG demand" for Q3	float	RO	0	41309
Q SUM Plus AVG ind	Average Reactive Inductive Power with positive active power over minute for Max and AVG demand" for Q three phase	float	RO	0	41311
Q1 Neg AVG ind	Average Reactive Inductive Power with negative active power over minute for Max and AVG demand" for Q1	float	RO	0	41313
Q2 Neg AVG ind	Average Reactive Inductive Power with negative active power over minute for Max and AVG demand" for Q2	float	RO	0	41315
Q3 Neg AVG ind	Average Reactive Inductive Power with negative active power over minute for Max and AVG demand" for Q3	float	RO	0	41317
Q SUM Neg AVG ind	Average Reactive Inductive Power with negative active power over minute for Max and AVG demand" for Q three phase	float	RO	0	41319
Q1 Plus AVG cap	Average Reactive Capacitive Power with positive active power over minute for Max and AVG demand" for Q1	float	RO	0	41321
Q2 Plus AVG cap	Average Reactive Capacitive Power with positive active power over minute for Max and AVG demand" for Q2	float	RO	0	41323
Q3 Plus AVG cap	Average Reactive Capacitive Power with positive active power over minute for Max and AVG demand" for Q3	float	RO	0	41325
Q SUM Plus AVG cap	Average Reactive Capacitive Power with positive active power over minute for Max and AVG demand" for Q three phase	float	RO	0	41327
Q1 Neg AVG cap	Average Reactive Capacitive Power with negative active power over minute for Max and AVG demand" for Q1	float	RO	0	41329
Q2 Neg AVG cap	Average Reactive Capacitive Power with negative active power over minute for Max and AVG demand" for Q2	float	RO	0	41331
Q3 Neg AVG cap	Average Reactive Capacitive Power with negative active power over minute for Max and AVG demand" for Q3	float	RO	0	41333
Q SUM Neg AVG cap	Average Reactive Capacitive Power with negative active power over minute for Max and AVG demand" for Q three phase	float	RO	0	41335
P1 MaxDemand	MAX Demand over minute for Max and AVG demand" for P1	float	RO	0	41337
P2 MaxDemand	MAX Demand over minute for Max and AVG demand" for P2	float	RO	0	41339
P3 MaxDemand	MAX Demand over minute for Max and AVG demand" for P3	float	RO	0	41341
P SUM MaxDemand	MAX Demand over minute for Max and AVG demand" for P three phase	float	RO	0	41343

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

Register Name	Description	Register Type	R/W	Default	Modbus Address
Month of P1_MaxDemand	Month at which arises Max Demand over "minute for Max and AVG demand" for P1 for current month	unsigned short	RO	0	41345
Day of P1_MaxDemand	Day at which arises Max Demand over "minute for Max and AVG demand" for P1 for current month	unsigned short	RO	0	41346
Hour of P1_MaxDemand	Hour at which arises Max Demand over "minute for Max and AVG demand" for P1 for current month	unsigned short	RO	0	41347
Minute of P1_MaxDemand	Minute at which arises Max Demand over "minute for Max and AVG demand" for P1 for current month	unsigned short	RO	0	41348
Month of P2_MaxDemand	Month at which arises Max Demand over "minute for Max and AVG demand" for P2 for current month	unsigned short	RO	0	41349
Day of P2_MaxDemand	Day at which arises Max Demand over "minute for Max and AVG demand" for P2 for current month	unsigned short	RO	0	41350
Hour of P2_MaxDemand	Hour at which arises Max Demand over "minute for Max and AVG demand" for P2 for current month	unsigned short	RO	0	41351
Minute of P2_MaxDemand	Minute at which arises Max Demand over "minute for Max and AVG demand" for P2 for current month	unsigned short	RO	0	41352
Month of P3_MaxDemand	Month at which arises Max Demand over "minute for Max and AVG demand" for P3 for current month	unsigned short	RO	0	41353
Day of P3_MaxDemand	Day at which arises Max Demand over "minute for Max and AVG demand" for P3 for current month	unsigned short	RO	0	41354
Hour of P3_MaxDemand	Hour at which arises Max Demand over "minute for Max and AVG demand" for P3 for current month	unsigned short	RO	0	41355
Minute of P3_MaxDemand	Minute at which arises Max Demand over "minute for Max and AVG demand" for P3 for current month	unsigned short	RO	0	41356
Month of P_SUM_MaxDemand	Month at which arises Max Demand over "minute for Max and AVG demand" for P_SUM for current month	unsigned short	RO	0	41357
Day of P_SUM_MaxDemand	Day at which arises Max Demand over "minute for Max and AVG demand" for P_SUM for current month	unsigned short	RO	0	41358
Hour of P_SUM_MaxDemand	Hour at which arises Max Demand over "minute for Max and AVG demand" for P_SUM for current month	unsigned short	RO	0	41359
Minute of P_SUM_MaxDemand	Minute at which arises Max Demand over "minute for Max and AVG demand" for P_SUM for current month	unsigned short	RO	0	41360
Year	RTC : year (2000-2099)	unsigned short	R/W	2024	41361
Month	RTC : month (1-12)	unsigned short	R/W	10	41362
Day	RTC : day month (1-31)	unsigned short	R/W	17	41363
Hour	RTC : hour (0-23)	unsigned short	R/W	16	41364
Minute	RTC : minute (0-59)	unsigned short	R/W	7	41365
Seconds	RTC : second (0-59)	unsigned short	R/W	45	41366
RSSI	Wifi Strength (of the connected AP)	signed short	RO	0	41367
<b>Harmonics and Interharmonics</b>					
Efficiency	Calculate efficiency of Phase 1 compared to Phase 2	float	RO	0	41377
Voltage_unbalance	Voltage Unbalance of the three phase system	float	RO	0	41379
K_factor_I1	K-factor for I1, see IEEE Standard 1100-1992	float	RO	0	41381
K_factor_I2	K-factor for I2, see IEEE Standard 1100-1992	float	RO	0	41383
K_factor_I3	K-factor for I3, see IEEE Standard 1100-1992	float	RO	0	41385
DPF1	Distortion Power Factor line 1 (+ inductive, - capacitive)	float	RO	0	41387
DPF2	Distortion Power Factor line 2 (+ inductive, - capacitive)	float	RO	0	41389
DPF3	Distortion Power Factor line 3 (+ inductive, - capacitive)	float	RO	0	41391
DPF_N	Neutral Distortion Power Factor (+ inductive, - capacitive)	float	RO	0	41393
THD_V_L1	THD Star Voltage L1	float	RO	0	41395
THD_V_L2	THD Star Voltage L2	float	RO	0	41397
THD_V_L3	THD Star Voltage L3	float	RO	0	41399
THD_V_L12	THD Line Voltage L1-L2	float	RO	0	41401
THD_V_L23	THD Line Voltage L2-L3	float	RO	0	41403
THD_V_L31	THD Line Voltage L3-L1	float	RO	0	41405
THD_I_L1	THD Line Current L1	float	RO	0	41407
THD_I_L2	THD Line Current L2	float	RO	0	41409
THD_I_L3	THD Line Current L3	float	RO	0	41411
THD_I_N	THD Neutral Current	float	RO	0	41413
TDD_I_L1	TDD Line Current L1	float	RO	0	41415
TDD_I_L2	TDD Line Current L2	float	RO	0	41417
TDD_I_L3	TDD Line Current L3	float	RO	0	41419
V_L1N_H_AMPLITUDE_0	Star Voltage L1-N Harmonic amplitude #0	float	RO	0	41421
V_L1N_H_AMPLITUDE_1	Star Voltage L1-N Harmonic amplitude #1	float	RO	0	41423
V_L1N_H_AMPLITUDE_2	Star Voltage L1-N Harmonic amplitude #2	float	RO	0	41425
V_L1N_H_AMPLITUDE_3	Star Voltage L1-N Harmonic amplitude #3	float	RO	0	41427
V_L1N_H_AMPLITUDE_4	Star Voltage L1-N Harmonic amplitude #4	float	RO	0	41429
V_L1N_H_AMPLITUDE_5	Star Voltage L1-N Harmonic amplitude #5	float	RO	0	41431
V_L1N_H_AMPLITUDE_6	Star Voltage L1-N Harmonic amplitude #6	float	RO	0	41433
V_L1N_H_AMPLITUDE_7	Star Voltage L1-N Harmonic amplitude #7	float	RO	0	41435
V_L1N_H_AMPLITUDE_8	Star Voltage L1-N Harmonic amplitude #8	float	RO	0	41437
V_L1N_H_AMPLITUDE_9	Star Voltage L1-N Harmonic amplitude #9	float	RO	0	41439
V_L1N_H_AMPLITUDE_10	Star Voltage L1-N Harmonic amplitude #10	float	RO	0	41441
V_L1N_H_AMPLITUDE_11	Star Voltage L1-N Harmonic amplitude #11	float	RO	0	41443
V_L1N_H_AMPLITUDE_12	Star Voltage L1-N Harmonic amplitude #12	float	RO	0	41445
V_L1N_H_AMPLITUDE_13	Star Voltage L1-N Harmonic amplitude #13	float	RO	0	41447
V_L1N_H_AMPLITUDE_14	Star Voltage L1-N Harmonic amplitude #14	float	RO	0	41449
V_L1N_H_AMPLITUDE_15	Star Voltage L1-N Harmonic amplitude #15	float	RO	0	41451
V_L1N_H_AMPLITUDE_16	Star Voltage L1-N Harmonic amplitude #16	float	RO	0	41453
V_L1N_H_AMPLITUDE_17	Star Voltage L1-N Harmonic amplitude #17	float	RO	0	41455
V_L1N_H_AMPLITUDE_18	Star Voltage L1-N Harmonic amplitude #18	float	RO	0	41457
V_L1N_H_AMPLITUDE_19	Star Voltage L1-N Harmonic amplitude #19	float	RO	0	41459
V_L1N_H_AMPLITUDE_20	Star Voltage L1-N Harmonic amplitude #20	float	RO	0	41461
V_L1N_H_AMPLITUDE_21	Star Voltage L1-N Harmonic amplitude #21	float	RO	0	41463
V_L1N_H_AMPLITUDE_22	Star Voltage L1-N Harmonic amplitude #22	float	RO	0	41465
V_L1N_H_AMPLITUDE_23	Star Voltage L1-N Harmonic amplitude #23	float	RO	0	41467
V_L1N_H_AMPLITUDE_24	Star Voltage L1-N Harmonic amplitude #24	float	RO	0	41469
V_L1N_H_AMPLITUDE_25	Star Voltage L1-N Harmonic amplitude #25	float	RO	0	41471
V_L1N_H_AMPLITUDE_26	Star Voltage L1-N Harmonic amplitude #26	float	RO	0	41473
V_L1N_H_AMPLITUDE_27	Star Voltage L1-N Harmonic amplitude #27	float	RO	0	41475
V_L1N_H_AMPLITUDE_28	Star Voltage L1-N Harmonic amplitude #28	float	RO	0	41477
V_L1N_H_AMPLITUDE_29	Star Voltage L1-N Harmonic amplitude #29	float	RO	0	41479
V_L1N_H_AMPLITUDE_30	Star Voltage L1-N Harmonic amplitude #30	float	RO	0	41481
V_L1N_H_AMPLITUDE_31	Star Voltage L1-N Harmonic amplitude #31	float	RO	0	41483
V_L1N_H_AMPLITUDE_32	Star Voltage L1-N Harmonic amplitude #32	float	RO	0	41485
V_L1N_H_AMPLITUDE_33	Star Voltage L1-N Harmonic amplitude #33	float	RO	0	41487
V_L1N_H_AMPLITUDE_34	Star Voltage L1-N Harmonic amplitude #34	float	RO	0	41489
V_L1N_H_AMPLITUDE_35	Star Voltage L1-N Harmonic amplitude #35	float	RO	0	41491
V_L1N_H_AMPLITUDE_36	Star Voltage L1-N Harmonic amplitude #36	float	RO	0	41493
V_L1N_H_AMPLITUDE_37	Star Voltage L1-N Harmonic amplitude #37	float	RO	0	41495
V_L1N_H_AMPLITUDE_38	Star Voltage L1-N Harmonic amplitude #38	float	RO	0	41497
V_L1N_H_AMPLITUDE_39	Star Voltage L1-N Harmonic amplitude #39	float	RO	0	41499
V_L1N_H_AMPLITUDE_40	Star Voltage L1-N Harmonic amplitude #40	float	RO	0	41501
V_L1N_H_AMPLITUDE_41	Star Voltage L1-N Harmonic amplitude #41	float	RO	0	41503
V_L1N_H_AMPLITUDE_42	Star Voltage L1-N Harmonic amplitude #42	float	RO	0	41505
V_L1N_H_AMPLITUDE_43	Star Voltage L1-N Harmonic amplitude #43	float	RO	0	41507
V_L1N_H_AMPLITUDE_44	Star Voltage L1-N Harmonic amplitude #44	float	RO	0	41509
V_L1N_H_AMPLITUDE_45	Star Voltage L1-N Harmonic amplitude #45	float	RO	0	41511
V_L1N_H_AMPLITUDE_46	Star Voltage L1-N Harmonic amplitude #46	float	RO	0	41513
V_L1N_H_AMPLITUDE_47	Star Voltage L1-N Harmonic amplitude #47	float	RO	0	41515
V_L1N_H_AMPLITUDE_48	Star Voltage L1-N Harmonic amplitude #48	float	RO	0	41517
V_L1N_H_AMPLITUDE_49	Star Voltage L1-N Harmonic amplitude #49	float	RO	0	41519
V_L1N_H_AMPLITUDE_50	Star Voltage L1-N Harmonic amplitude #50	float	RO	0	41521
V_L1N_H_AMPLITUDE_51	Star Voltage L1-N Harmonic amplitude #51	float	RO	0	41523
V_L1N_H_AMPLITUDE_52	Star Voltage L1-N Harmonic amplitude #52	float	RO	0	41525
V_L1N_H_AMPLITUDE_53	Star Voltage L1-N Harmonic amplitude #53	float	RO	0	41527
V_L1N_H_AMPLITUDE_54	Star Voltage L1-N Harmonic amplitude #54	float	RO	0	41529
V_L1N_H_AMPLITUDE_55	Star Voltage L1-N Harmonic amplitude #55	float	RO	0	41531
V_L1N_H_AMPLITUDE_56	Star Voltage L1-N Harmonic amplitude #56	float	RO	0	41533
V_L1N_H_AMPLITUDE_57	Star Voltage L1-N Harmonic amplitude #57	float	RO	0	41535
V_L1N_H_AMPLITUDE_58	Star Voltage L1-N Harmonic amplitude #58	float	RO	0	41537
V_L1N_H_AMPLITUDE_59	Star Voltage L1-N Harmonic amplitude #59	float	RO	0	41539
V_L1N_H_AMPLITUDE_60	Star Voltage L1-N Harmonic amplitude #60	float	RO	0	41541
V_L1N_H_AMPLITUDE_61	Star Voltage L1-N Harmonic amplitude #61	float	RO	0	41543
V_L1N_H_AMPLITUDE_62	Star Voltage L1-N Harmonic amplitude #62	float	RO	0	41545
V_L1N_H_AMPLITUDE_63	Star Voltage L1-N Harmonic amplitude #63	float	RO	0	41547
V_L1N_H_PHASE_0	Star Voltage L1-N Harmonic phase #0	float	RO	0	41549
V_L1N_H_PHASE_1	Star Voltage L1-N Harmonic phase #1	float	RO	0	41551
V_L1N_H_PHASE_2	Star Voltage L1-N Harmonic phase #2	float	RO	0	41553
V_L1N_H_PHASE_3	Star Voltage L1-N Harmonic phase #3	float	RO	0	41555









































All versions  
Only FULL version

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



Register Name	Description	Register Type	R/W	Default	Modbus Address
I_N_IH_AMPLITUDE_56	Line Current N InterHarmonic amplitude #56	float	RO	0	46397
I_N_IH_AMPLITUDE_57	Line Current N InterHarmonic amplitude #57	float	RO	0	46399
I_N_IH_AMPLITUDE_58	Line Current N InterHarmonic amplitude #58	float	RO	0	46401
I_N_IH_AMPLITUDE_59	Line Current N InterHarmonic amplitude #59	float	RO	0	46403
I_N_IH_AMPLITUDE_60	Line Current N InterHarmonic amplitude #60	float	RO	0	46405
I_N_IH_AMPLITUDE_61	Line Current N InterHarmonic amplitude #61	float	RO	0	46407
I_N_IH_AMPLITUDE_62	Line Current N InterHarmonic amplitude #62	float	RO	0	46409
I_N_IH_AMPLITUDE_63	Line Current N InterHarmonic amplitude #63	float	RO	0	46411
I_N_IH_PHASE_0	Line Current N InterHarmonic phase #0	float	RO	0	46413
I_N_IH_PHASE_1	Line Current N InterHarmonic phase #1	float	RO	0	46415
I_N_IH_PHASE_2	Line Current N InterHarmonic phase #2	float	RO	0	46417
I_N_IH_PHASE_3	Line Current N InterHarmonic phase #3	float	RO	0	46419
I_N_IH_PHASE_4	Line Current N InterHarmonic phase #4	float	RO	0	46421
I_N_IH_PHASE_5	Line Current N InterHarmonic phase #5	float	RO	0	46423
I_N_IH_PHASE_6	Line Current N InterHarmonic phase #6	float	RO	0	46425
I_N_IH_PHASE_7	Line Current N InterHarmonic phase #7	float	RO	0	46427
I_N_IH_PHASE_8	Line Current N InterHarmonic phase #8	float	RO	0	46429
I_N_IH_PHASE_9	Line Current N InterHarmonic phase #9	float	RO	0	46431
I_N_IH_PHASE_10	Line Current N InterHarmonic phase #10	float	RO	0	46433
I_N_IH_PHASE_11	Line Current N InterHarmonic phase #11	float	RO	0	46435
I_N_IH_PHASE_12	Line Current N InterHarmonic phase #12	float	RO	0	46437
I_N_IH_PHASE_13	Line Current N InterHarmonic phase #13	float	RO	0	46439
I_N_IH_PHASE_14	Line Current N InterHarmonic phase #14	float	RO	0	46441
I_N_IH_PHASE_15	Line Current N InterHarmonic phase #15	float	RO	0	46443
I_N_IH_PHASE_16	Line Current N InterHarmonic phase #16	float	RO	0	46445
I_N_IH_PHASE_17	Line Current N InterHarmonic phase #17	float	RO	0	46447
I_N_IH_PHASE_18	Line Current N InterHarmonic phase #18	float	RO	0	46449
I_N_IH_PHASE_19	Line Current N InterHarmonic phase #19	float	RO	0	46451
I_N_IH_PHASE_20	Line Current N InterHarmonic phase #20	float	RO	0	46453
I_N_IH_PHASE_21	Line Current N InterHarmonic phase #21	float	RO	0	46455
I_N_IH_PHASE_22	Line Current N InterHarmonic phase #22	float	RO	0	46457
I_N_IH_PHASE_23	Line Current N InterHarmonic phase #23	float	RO	0	46459
I_N_IH_PHASE_24	Line Current N InterHarmonic phase #24	float	RO	0	46461
I_N_IH_PHASE_25	Line Current N InterHarmonic phase #25	float	RO	0	46463
I_N_IH_PHASE_26	Line Current N InterHarmonic phase #26	float	RO	0	46465
I_N_IH_PHASE_27	Line Current N InterHarmonic phase #27	float	RO	0	46467
I_N_IH_PHASE_28	Line Current N InterHarmonic phase #28	float	RO	0	46469
I_N_IH_PHASE_29	Line Current N InterHarmonic phase #29	float	RO	0	46471
I_N_IH_PHASE_30	Line Current N InterHarmonic phase #30	float	RO	0	46473
I_N_IH_PHASE_31	Line Current N InterHarmonic phase #31	float	RO	0	46475
I_N_IH_PHASE_32	Line Current N InterHarmonic phase #32	float	RO	0	46477
I_N_IH_PHASE_33	Line Current N InterHarmonic phase #33	float	RO	0	46479
I_N_IH_PHASE_34	Line Current N InterHarmonic phase #34	float	RO	0	46481
I_N_IH_PHASE_35	Line Current N InterHarmonic phase #35	float	RO	0	46483
I_N_IH_PHASE_36	Line Current N InterHarmonic phase #36	float	RO	0	46485
I_N_IH_PHASE_37	Line Current N InterHarmonic phase #37	float	RO	0	46487
I_N_IH_PHASE_38	Line Current N InterHarmonic phase #38	float	RO	0	46489
I_N_IH_PHASE_39	Line Current N InterHarmonic phase #39	float	RO	0	46491
I_N_IH_PHASE_40	Line Current N InterHarmonic phase #40	float	RO	0	46493
I_N_IH_PHASE_41	Line Current N InterHarmonic phase #41	float	RO	0	46495
I_N_IH_PHASE_42	Line Current N InterHarmonic phase #42	float	RO	0	46497
I_N_IH_PHASE_43	Line Current N InterHarmonic phase #43	float	RO	0	46499
I_N_IH_PHASE_44	Line Current N InterHarmonic phase #44	float	RO	0	46501
I_N_IH_PHASE_45	Line Current N InterHarmonic phase #45	float	RO	0	46503
I_N_IH_PHASE_46	Line Current N InterHarmonic phase #46	float	RO	0	46505
I_N_IH_PHASE_47	Line Current N InterHarmonic phase #47	float	RO	0	46507
I_N_IH_PHASE_48	Line Current N InterHarmonic phase #48	float	RO	0	46509
I_N_IH_PHASE_49	Line Current N InterHarmonic phase #49	float	RO	0	46511
I_N_IH_PHASE_50	Line Current N InterHarmonic phase #50	float	RO	0	46513
I_N_IH_PHASE_51	Line Current N InterHarmonic phase #51	float	RO	0	46515
I_N_IH_PHASE_52	Line Current N InterHarmonic phase #52	float	RO	0	46517
I_N_IH_PHASE_53	Line Current N InterHarmonic phase #53	float	RO	0	46519
I_N_IH_PHASE_54	Line Current N InterHarmonic phase #54	float	RO	0	46521
I_N_IH_PHASE_55	Line Current N InterHarmonic phase #55	float	RO	0	46523
I_N_IH_PHASE_56	Line Current N InterHarmonic phase #56	float	RO	0	46525
I_N_IH_PHASE_57	Line Current N InterHarmonic phase #57	float	RO	0	46527
I_N_IH_PHASE_58	Line Current N InterHarmonic phase #58	float	RO	0	46529
I_N_IH_PHASE_59	Line Current N InterHarmonic phase #59	float	RO	0	46531
I_N_IH_PHASE_60	Line Current N InterHarmonic phase #60	float	RO	0	46533
I_N_IH_PHASE_61	Line Current N InterHarmonic phase #61	float	RO	0	46535
I_N_IH_PHASE_62	Line Current N InterHarmonic phase #62	float	RO	0	46537
I_N_IH_PHASE_63	Line Current N InterHarmonic phase #63	float	RO	0	46539
<b>Power quality</b>					
V_SAG_VALUE_N_0	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-0	float	RO	0	46541
V_SAG_YEAR_N_0	Voltage Sag Year @ n-0	unsigned short	RO	0	46543
V_SAG_MONTH_N_0	Voltage Sag Month @ n-0	unsigned short	RO	0	46544
V_SAG_DAY_N_0	Voltage Sag Day @ n-0	unsigned short	RO	0	46545
V_SAG_HOUR_N_0	Voltage Sag Hour @ n-0	unsigned short	RO	0	46546
V_SAG_MINUTE_N_0	Voltage Sag Minute @ n-0	unsigned short	RO	0	46547
V_SAG_SECOND_N_0	Voltage Sag Second @ n-0	unsigned short	RO	0	46548
V_SAG_DURATION_N_0	Voltage Sag Duration [ms] @ n-0	unsigned short	RO	0	46549
V_SAG_QUERY_N_0	// Voltage Sag Type:	unsigned short	RO	0	46550
V_SAG_VALUE_N_1	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-1	float	RO	0	46551
V_SAG_YEAR_N_1	Voltage Sag Year @ n-1	unsigned short	RO	0	46553
V_SAG_MONTH_N_1	Voltage Sag Month @ n-1	unsigned short	RO	0	46554
V_SAG_DAY_N_1	Voltage Sag Day @ n-1	unsigned short	RO	0	46555
V_SAG_HOUR_N_1	Voltage Sag Hour @ n-1	unsigned short	RO	0	46556
V_SAG_MINUTE_N_1	Voltage Sag Minute @ n-1	unsigned short	RO	0	46557
V_SAG_SECOND_N_1	Voltage Sag Second @ n-1	unsigned short	RO	0	46558
V_SAG_DURATION_N_1	Voltage Sag Duration [ms] @ n-1	unsigned short	RO	0	46559
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	unsigned short	RO	0	46560
V_SAG_VALUE_N_2	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-2	float	RO	0	46561
V_SAG_YEAR_N_2	Voltage Sag Year @ n-2	unsigned short	RO	0	46563
V_SAG_MONTH_N_2	Voltage Sag Month @ n-2	unsigned short	RO	0	46564
V_SAG_DAY_N_2	Voltage Sag Day @ n-2	unsigned short	RO	0	46565
V_SAG_HOUR_N_2	Voltage Sag Hour @ n-2	unsigned short	RO	0	46566
V_SAG_MINUTE_N_2	Voltage Sag Minute @ n-2	unsigned short	RO	0	46567
V_SAG_SECOND_N_2	Voltage Sag Second @ n-2	unsigned short	RO	0	46568
V_SAG_DURATION_N_2	Voltage Sag Duration [ms] @ n-2	unsigned short	RO	0	46569
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	unsigned short	RO	0	46570
V_SAG_VALUE_N_3	Voltage Sag RMS Value (between 10% and 90% "Nominal_Star_Voltage") @ n-3	float	RO	0	46571

	All versions
	Only FULL version

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Register Name	Description	Register Type	R/W	Default	Modbus Address
V_SAG_YEAR_N_3	Voltage Sag Year @ n-3	unsigned short	RO	0	46573
V_SAG_MONTH_N_3	Voltage Sag Month @ n-3	unsigned short	RO	0	46574
V_SAG_DAY_N_3	Voltage Sag Day @ n-3	unsigned short	RO	0	46575
V_SAG_HOUR_N_3	Voltage Sag Hour @ n-3	unsigned short	RO	0	46576
V_SAG_MINUTE_N_3	Voltage Sag Minute @ n-3	unsigned short	RO	0	46577
V_SAG_SECOND_N_3	Voltage Sag Second @ n-3	unsigned short	RO	0	46578
V_SAG_DURATION_N_3	Voltage Sag Duration [ms] @ n-3	unsigned short	RO	0	46579
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	unsigned short	RO	0	46580
V_SAG_VALUE_N_4	Voltage Sag RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-4	float	RO	0	46581
V_SAG_YEAR_N_4	Voltage Sag Year @ n-4	unsigned short	RO	0	46583
V_SAG_MONTH_N_4	Voltage Sag Month @ n-4	unsigned short	RO	0	46584
V_SAG_DAY_N_4	Voltage Sag Day @ n-4	unsigned short	RO	0	46585
V_SAG_HOUR_N_4	Voltage Sag Hour @ n-4	unsigned short	RO	0	46586
V_SAG_MINUTE_N_4	Voltage Sag Minute @ n-4	unsigned short	RO	0	46587
V_SAG_SECOND_N_4	Voltage Sag Second @ n-4	unsigned short	RO	0	46588
V_SAG_DURATION_N_4	Voltage Sag Duration [ms] @ n-4	unsigned short	RO	0	46589
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	unsigned short	RO	0	46590
V_SAG_VALUE_N_5	Voltage Sag RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-5	float	RO	0	46591
V_SAG_YEAR_N_5	Voltage Sag Year @ n-5	unsigned short	RO	0	46593
V_SAG_MONTH_N_5	Voltage Sag Month @ n-5	unsigned short	RO	0	46594
V_SAG_DAY_N_5	Voltage Sag Day @ n-5	unsigned short	RO	0	46595
V_SAG_HOUR_N_5	Voltage Sag Hour @ n-5	unsigned short	RO	0	46596
V_SAG_MINUTE_N_5	Voltage Sag Minute @ n-5	unsigned short	RO	0	46597
V_SAG_SECOND_N_5	Voltage Sag Second @ n-5	unsigned short	RO	0	46598
V_SAG_DURATION_N_5	Voltage Sag Duration [ms] @ n-5	unsigned short	RO	0	46599
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	unsigned short	RO	0	46600
V_SAG_VALUE_N_6	Voltage Sag RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-6	float	RO	0	46601
V_SAG_YEAR_N_6	Voltage Sag Year @ n-6	unsigned short	RO	0	46603
V_SAG_MONTH_N_6	Voltage Sag Month @ n-6	unsigned short	RO	0	46604
V_SAG_DAY_N_6	Voltage Sag Day @ n-6	unsigned short	RO	0	46605
V_SAG_HOUR_N_6	Voltage Sag Hour @ n-6	unsigned short	RO	0	46606
V_SAG_MINUTE_N_6	Voltage Sag Minute @ n-6	unsigned short	RO	0	46607
V_SAG_SECOND_N_6	Voltage Sag Second @ n-6	unsigned short	RO	0	46608
V_SAG_DURATION_N_6	Voltage Sag Duration [ms] @ n-6	unsigned short	RO	0	46609
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	unsigned short	RO	0	46610
V_SAG_VALUE_N_7	Voltage Sag RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-7	float	RO	0	46611
V_SAG_YEAR_N_7	Voltage Sag Year @ n-7	unsigned short	RO	0	46613
V_SAG_MONTH_N_7	Voltage Sag Month @ n-7	unsigned short	RO	0	46614
V_SAG_DAY_N_7	Voltage Sag Day @ n-7	unsigned short	RO	0	46615
V_SAG_HOUR_N_7	Voltage Sag Hour @ n-7	unsigned short	RO	0	46616
V_SAG_MINUTE_N_7	Voltage Sag Minute @ n-7	unsigned short	RO	0	46617
V_SAG_SECOND_N_7	Voltage Sag Second @ n-7	unsigned short	RO	0	46618
V_SAG_DURATION_N_7	Voltage Sag Duration [ms] @ n-7	unsigned short	RO	0	46619
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	unsigned short	RO	0	46620
V_SAG_VALUE_N_8	Voltage Sag RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-8	float	RO	0	46621
V_SAG_YEAR_N_8	Voltage Sag Year @ n-8	unsigned short	RO	0	46623
V_SAG_MONTH_N_8	Voltage Sag Month @ n-8	unsigned short	RO	0	46624
V_SAG_DAY_N_8	Voltage Sag Day @ n-8	unsigned short	RO	0	46625
V_SAG_HOUR_N_8	Voltage Sag Hour @ n-8	unsigned short	RO	0	46626
V_SAG_MINUTE_N_8	Voltage Sag Minute @ n-8	unsigned short	RO	0	46627
V_SAG_SECOND_N_8	Voltage Sag Second @ n-8	unsigned short	RO	0	46628
V_SAG_DURATION_N_8	Voltage Sag Duration [ms] @ n-8	unsigned short	RO	0	46629
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	unsigned short	RO	0	46630
V_SAG_VALUE_N_9	Voltage Sag RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-9	float	RO	0	46631
V_SAG_YEAR_N_9	Voltage Sag Year @ n-9	unsigned short	RO	0	46633
V_SAG_MONTH_N_9	Voltage Sag Month @ n-9	unsigned short	RO	0	46634
V_SAG_DAY_N_9	Voltage Sag Day @ n-9	unsigned short	RO	0	46635
V_SAG_HOUR_N_9	Voltage Sag Hour @ n-9	unsigned short	RO	0	46636
V_SAG_MINUTE_N_9	Voltage Sag Minute @ n-9	unsigned short	RO	0	46637
V_SAG_SECOND_N_9	Voltage Sag Second @ n-9	unsigned short	RO	0	46638
V_SAG_DURATION_N_9	Voltage Sag Duration [ms] @ n-9	unsigned short	RO	0	46639
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	unsigned short	RO	0	46640
V_SAG_VALUE_EEPROM	Voltage Sag RMS Value (between 10% and 90% "Nominal Star Voltage") EEPROM data	float	RO	0	46641
V_SAG_YEAR_EEPROM	Voltage Sag Year EEPROM data	unsigned short	RO	0	46643
V_SAG_MONTH_EEPROM	Voltage Sag Month EEPROM data	unsigned short	RO	0	46644

All versions

R/W legend:

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

Only FULL version

Register Name	Description	Register Type	R/W	Default	Modbus Address
V_SAG_DAY_EEPROM	Voltage Sag Day EEPROM data	unsigned short	RO	0	46645
V_SAG_HOUR_EEPROM	Voltage Sag Hour EEPROM data	unsigned short	RO	0	46646
V_SAG_MINUTE_EEPROM	Voltage Sag Minute EEPROM data	unsigned short	RO	0	46647
V_SAG_SECOND_EEPROM	Voltage Sag Second EEPROM data	unsigned short	RO	0	46648
V_SAG_DURATION_EEPROM	Voltage Sag Duration [ms] EEPROM data	unsigned short	RO	0	46649
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	unsigned short	RO	0	46650
V_SWELL_VALUE_N_0	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-0	float	RO	0	46651
V_SWELL_YEAR_N_0	Voltage Swell Year @ n-0	unsigned short	RO	0	46653
V_SWELL_MONTH_N_0	Voltage Swell Month @ n-0	unsigned short	RO	0	46654
V_SWELL_DAY_N_0	Voltage Swell Day @ n-0	unsigned short	RO	0	46655
V_SWELL_HOUR_N_0	Voltage Swell Hour @ n-0	unsigned short	RO	0	46656
V_SWELL_MINUTE_N_0	Voltage Swell Minute @ n-0	unsigned short	RO	0	46657
V_SWELL_SECOND_N_0	Voltage Swell Second @ n-0	unsigned short	RO	0	46658
V_SWELL_DURATION_N_0	Voltage Swell Duration [ms] @ n-0	unsigned short	RO	0	46659
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	unsigned short	RO	0	46660
V_SWELL_VALUE_N_1	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-1	float	RO	0	46661
V_SWELL_YEAR_N_1	Voltage Swell Year @ n-1	unsigned short	RO	0	46663
V_SWELL_MONTH_N_1	Voltage Swell Month @ n-1	unsigned short	RO	0	46664
V_SWELL_DAY_N_1	Voltage Swell Day @ n-1	unsigned short	RO	0	46665
V_SWELL_HOUR_N_1	Voltage Swell Hour @ n-1	unsigned short	RO	0	46666
V_SWELL_MINUTE_N_1	Voltage Swell Minute @ n-1	unsigned short	RO	0	46667
V_SWELL_SECOND_N_1	Voltage Swell Second @ n-1	unsigned short	RO	0	46668
V_SWELL_DURATION_N_1	Voltage Swell Duration [ms] @ n-1	unsigned short	RO	0	46669
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	unsigned short	RO	0	46670
V_SWELL_VALUE_N_2	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-2	float	RO	0	46671
V_SWELL_YEAR_N_2	Voltage Swell Year @ n-2	unsigned short	RO	0	46673
V_SWELL_MONTH_N_2	Voltage Swell Month @ n-2	unsigned short	RO	0	46674
V_SWELL_DAY_N_2	Voltage Swell Day @ n-2	unsigned short	RO	0	46675
V_SWELL_HOUR_N_2	Voltage Swell Hour @ n-2	unsigned short	RO	0	46676
V_SWELL_MINUTE_N_2	Voltage Swell Minute @ n-2	unsigned short	RO	0	46677
V_SWELL_SECOND_N_2	Voltage Swell Second @ n-2	unsigned short	RO	0	46678
V_SWELL_DURATION_N_2	Voltage Swell Duration [ms] @ n-2	unsigned short	RO	0	46679
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	unsigned short	RO	0	46680
V_SWELL_VALUE_N_3	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-3	float	RO	0	46681
V_SWELL_YEAR_N_3	Voltage Swell Year @ n-3	unsigned short	RO	0	46683
V_SWELL_MONTH_N_3	Voltage Swell Month @ n-3	unsigned short	RO	0	46684
V_SWELL_DAY_N_3	Voltage Swell Day @ n-3	unsigned short	RO	0	46685
V_SWELL_HOUR_N_3	Voltage Swell Hour @ n-3	unsigned short	RO	0	46686
V_SWELL_MINUTE_N_3	Voltage Swell Minute @ n-3	unsigned short	RO	0	46687
V_SWELL_SECOND_N_3	Voltage Swell Second @ n-3	unsigned short	RO	0	46688
V_SWELL_DURATION_N_3	Voltage Swell Duration [ms] @ n-3	unsigned short	RO	0	46689
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	unsigned short	RO	0	46690
V_SWELL_VALUE_N_4	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-4	float	RO	0	46691
V_SWELL_YEAR_N_4	Voltage Swell Year @ n-4	unsigned short	RO	0	46693
V_SWELL_MONTH_N_4	Voltage Swell Month @ n-4	unsigned short	RO	0	46694
V_SWELL_DAY_N_4	Voltage Swell Day @ n-4	unsigned short	RO	0	46695
V_SWELL_HOUR_N_4	Voltage Swell Hour @ n-4	unsigned short	RO	0	46696
V_SWELL_MINUTE_N_4	Voltage Swell Minute @ n-4	unsigned short	RO	0	46697
V_SWELL_SECOND_N_4	Voltage Swell Second @ n-4	unsigned short	RO	0	46698
V_SWELL_DURATION_N_4	Voltage Swell Duration [ms] @ n-4	unsigned short	RO	0	46699
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	unsigned short	RO	0	46700
V_SWELL_VALUE_N_5	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-5	float	RO	0	46701
V_SWELL_YEAR_N_5	Voltage Swell Year @ n-5	unsigned short	RO	0	46703
V_SWELL_MONTH_N_5	Voltage Swell Month @ n-5	unsigned short	RO	0	46704
V_SWELL_DAY_N_5	Voltage Swell Day @ n-5	unsigned short	RO	0	46705
V_SWELL_HOUR_N_5	Voltage Swell Hour @ n-5	unsigned short	RO	0	46706
V_SWELL_MINUTE_N_5	Voltage Swell Minute @ n-5	unsigned short	RO	0	46707
V_SWELL_SECOND_N_5	Voltage Swell Second @ n-5	unsigned short	RO	0	46708
V_SWELL_DURATION_N_5	Voltage Swell Duration [ms] @ n-5	unsigned short	RO	0	46709
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	unsigned short	RO	0	46710
V_SWELL_VALUE_N_6	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-6	float	RO	0	46711
V_SWELL_YEAR_N_6	Voltage Swell Year @ n-6	unsigned short	RO	0	46713
V_SWELL_MONTH_N_6	Voltage Swell Month @ n-6	unsigned short	RO	0	46714
V_SWELL_DAY_N_6	Voltage Swell Day @ n-6	unsigned short	RO	0	46715
V_SWELL_HOUR_N_6	Voltage Swell Hour @ n-6	unsigned short	RO	0	46716
V_SWELL_MINUTE_N_6	Voltage Swell Minute @ n-6	unsigned short	RO	0	46717
V_SWELL_SECOND_N_6	Voltage Swell Second @ n-6	unsigned short	RO	0	46718
V_SWELL_DURATION_N_6	Voltage Swell Duration [ms] @ n-6	unsigned short	RO	0	46719

All versions  
Only FULL version

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



Register Name	Description	Register Type	R/W	Default	Modbus Address
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	unsigned short	RO	0	46720
V_SWELL_VALUE_N_7	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-7	float	RO	0	46721
V_SWELL_YEAR_N_7	Voltage Swell Year @ n-7	unsigned short	RO	0	46723
V_SWELL_MONTH_N_7	Voltage Swell Month @ n-7	unsigned short	RO	0	46724
V_SWELL_DAY_N_7	Voltage Swell Day @ n-7	unsigned short	RO	0	46725
V_SWELL_HOUR_N_7	Voltage Swell Hour @ n-7	unsigned short	RO	0	46726
V_SWELL_MINUTE_N_7	Voltage Swell Minute @ n-7	unsigned short	RO	0	46727
V_SWELL_SECOND_N_7	Voltage Swell Second @ n-7	unsigned short	RO	0	46728
V_SWELL_DURATION_N_7	Voltage Swell Duration [ms] @ n-7	unsigned short	RO	0	46729
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	unsigned short	RO	0	46730
V_SWELL_VALUE_N_8	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-8	float	RO	0	46731
V_SWELL_YEAR_N_8	Voltage Swell Year @ n-8	unsigned short	RO	0	46733
V_SWELL_MONTH_N_8	Voltage Swell Month @ n-8	unsigned short	RO	0	46734
V_SWELL_DAY_N_8	Voltage Swell Day @ n-8	unsigned short	RO	0	46735
V_SWELL_HOUR_N_8	Voltage Swell Hour @ n-8	unsigned short	RO	0	46736
V_SWELL_MINUTE_N_8	Voltage Swell Minute @ n-8	unsigned short	RO	0	46737
V_SWELL_SECOND_N_8	Voltage Swell Second @ n-8	unsigned short	RO	0	46738
V_SWELL_DURATION_N_8	Voltage Swell Duration [ms] @ n-8	unsigned short	RO	0	46739
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	unsigned short	RO	0	46740
V_SWELL_VALUE_N_9	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-9	float	RO	0	46741
V_SWELL_YEAR_N_9	Voltage Swell Year @ n-9	unsigned short	RO	0	46743
V_SWELL_MONTH_N_9	Voltage Swell Month @ n-9	unsigned short	RO	0	46744
V_SWELL_DAY_N_9	Voltage Swell Day @ n-9	unsigned short	RO	0	46745
V_SWELL_HOUR_N_9	Voltage Swell Hour @ n-9	unsigned short	RO	0	46746
V_SWELL_MINUTE_N_9	Voltage Swell Minute @ n-9	unsigned short	RO	0	46747
V_SWELL_SECOND_N_9	Voltage Swell Second @ n-9	unsigned short	RO	0	46748
V_SWELL_DURATION_N_9	Voltage Swell Duration [ms] @ n-9	unsigned short	RO	0	46749
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	unsigned short	RO	0	46750
V_SWELL_VALUE_EEPROM	Voltage Swell RMS Value (between 10% and 90% "Nominal Star Voltage") EEPROM data	float	RO	0	46751
V_SWELL_YEAR_EEPROM	Voltage Swell Year EEPROM data	unsigned short	RO	0	46753
V_SWELL_MONTH_EEPROM	Voltage Swell Month EEPROM data	unsigned short	RO	0	46754
V_SWELL_DAY_EEPROM	Voltage Swell Day EEPROM data	unsigned short	RO	0	46755
V_SWELL_HOUR_EEPROM	Voltage Swell Hour EEPROM data	unsigned short	RO	0	46756
V_SWELL_MINUTE_EEPROM	Voltage Swell Minute EEPROM data	unsigned short	RO	0	46757
V_SWELL_SECOND_EEPROM	Voltage Swell Second EEPROM data	unsigned short	RO	0	46758
V_SWELL_DURATION_EEPROM	Voltage Swell Duration [ms] EEPROM data	unsigned short	RO	0	46759
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	unsigned short	RO	0	46760
V_INTERRUPTURE_VALUE_N_0	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-0	float	RO	0	46761
V_INTERRUPTURE_YEAR_N_0	Voltage Interruption Year @ n-0	unsigned short	RO	0	46763
V_INTERRUPTURE_MONTH_N_0	Voltage Interruption Month @ n-0	unsigned short	RO	0	46764
V_INTERRUPTURE_DAY_N_0	Voltage Interruption Day @ n-0	unsigned short	RO	0	46765
V_INTERRUPTURE_HOUR_N_0	Voltage Interruption Hour @ n-0	unsigned short	RO	0	46766
V_INTERRUPTURE_MINUTE_N_0	Voltage Interruption Minute @ n-0	unsigned short	RO	0	46767
V_INTERRUPTURE_SECOND_N_0	Voltage Interruption Second @ n-0	unsigned short	RO	0	46768
V_INTERRUPTURE_DURATION_N_0	Voltage Interruption Duration [ms] @ n-0	unsigned short	RO	0	46769
V_INTERRUPTURE_QUERY_N_0	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46770
V_INTERRUPTURE_VALUE_N_1	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-1	float	RO	0	46771
V_INTERRUPTURE_YEAR_N_1	Voltage Interruption Year @ n-1	unsigned short	RO	0	46773
V_INTERRUPTURE_MONTH_N_1	Voltage Interruption Month @ n-1	unsigned short	RO	0	46774
V_INTERRUPTURE_DAY_N_1	Voltage Interruption Day @ n-1	unsigned short	RO	0	46775
V_INTERRUPTURE_HOUR_N_1	Voltage Interruption Hour @ n-1	unsigned short	RO	0	46776
V_INTERRUPTURE_MINUTE_N_1	Voltage Interruption Minute @ n-1	unsigned short	RO	0	46777
V_INTERRUPTURE_SECOND_N_1	Voltage Interruption Second @ n-1	unsigned short	RO	0	46778
V_INTERRUPTURE_DURATION_N_1	Voltage Interruption Duration [ms] @ n-1	unsigned short	RO	0	46779
V_INTERRUPTURE_QUERY_N_1	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46780
V_INTERRUPTURE_VALUE_N_2	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-2	float	RO	0	46781
V_INTERRUPTURE_YEAR_N_2	Voltage Interruption Year @ n-2	unsigned short	RO	0	46783
V_INTERRUPTURE_MONTH_N_2	Voltage Interruption Month @ n-2	unsigned short	RO	0	46784
V_INTERRUPTURE_DAY_N_2	Voltage Interruption Day @ n-2	unsigned short	RO	0	46785
V_INTERRUPTURE_HOUR_N_2	Voltage Interruption Hour @ n-2	unsigned short	RO	0	46786
V_INTERRUPTURE_MINUTE_N_2	Voltage Interruption Minute @ n-2	unsigned short	RO	0	46787
V_INTERRUPTURE_SECOND_N_2	Voltage Interruption Second @ n-2	unsigned short	RO	0	46788
V_INTERRUPTURE_DURATION_N_2	Voltage Interruption Duration [ms] @ n-2	unsigned short	RO	0	46789

All versions  
Only FULL version

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



Register Name	Description	Register Type	R/W	Default	Modbus Address
V_INTERRUPT_QUERY_N_2	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46790
V_INTERRUPT_VALUE_N_3	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-3	float	RO	0	46791
V_INTERRUPT_YEAR_N_3	Voltage Interruption Year @ n-3	unsigned short	RO	0	46793
V_INTERRUPT_MONTH_N_3	Voltage Interruption Month @ n-3	unsigned short	RO	0	46794
V_INTERRUPT_DAY_N_3	Voltage Interruption Day @ n-3	unsigned short	RO	0	46795
V_INTERRUPT_HOUR_N_3	Voltage Interruption Hour @ n-3	unsigned short	RO	0	46796
V_INTERRUPT_MINUTE_N_3	Voltage Interruption Minute @ n-3	unsigned short	RO	0	46797
V_INTERRUPT_SECOND_N_3	Voltage Interruption Second @ n-3	unsigned short	RO	0	46798
V_INTERRUPT_DURATION_N_3	Voltage Interruption Duration [ms] @ n-3	unsigned short	RO	0	46799
V_INTERRUPT_QUERY_N_3	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46800
V_INTERRUPT_VALUE_N_4	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-4	float	RO	0	46801
V_INTERRUPT_YEAR_N_4	Voltage Interruption Year @ n-4	unsigned short	RO	0	46803
V_INTERRUPT_MONTH_N_4	Voltage Interruption Month @ n-4	unsigned short	RO	0	46804
V_INTERRUPT_DAY_N_4	Voltage Interruption Day @ n-4	unsigned short	RO	0	46805
V_INTERRUPT_HOUR_N_4	Voltage Interruption Hour @ n-4	unsigned short	RO	0	46806
V_INTERRUPT_MINUTE_N_4	Voltage Interruption Minute @ n-4	unsigned short	RO	0	46807
V_INTERRUPT_SECOND_N_4	Voltage Interruption Second @ n-4	unsigned short	RO	0	46808
V_INTERRUPT_DURATION_N_4	Voltage Interruption Duration [ms] @ n-4	unsigned short	RO	0	46809
V_INTERRUPT_QUERY_N_4	// Voltage Swell Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46810
V_INTERRUPT_VALUE_N_5	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-5	float	RO	0	46811
V_INTERRUPT_YEAR_N_5	Voltage Interruption Year @ n-5	unsigned short	RO	0	46813
V_INTERRUPT_MONTH_N_5	Voltage Interruption Month @ n-5	unsigned short	RO	0	46814
V_INTERRUPT_DAY_N_5	Voltage Interruption Day @ n-5	unsigned short	RO	0	46815
V_INTERRUPT_HOUR_N_5	Voltage Interruption Hour @ n-5	unsigned short	RO	0	46816
V_INTERRUPT_MINUTE_N_5	Voltage Interruption Minute @ n-5	unsigned short	RO	0	46817
V_INTERRUPT_SECOND_N_5	Voltage Interruption Second @ n-5	unsigned short	RO	0	46818
V_INTERRUPT_DURATION_N_5	Voltage Interruption Duration [ms] @ n-5	unsigned short	RO	0	46819
V_INTERRUPT_QUERY_N_5	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46820
V_INTERRUPT_VALUE_N_6	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-6	float	RO	0	46821
V_INTERRUPT_YEAR_N_6	Voltage Interruption Year @ n-6	unsigned short	RO	0	46823
V_INTERRUPT_MONTH_N_6	Voltage Interruption Month @ n-6	unsigned short	RO	0	46824
V_INTERRUPT_DAY_N_6	Voltage Interruption Day @ n-6	unsigned short	RO	0	46825
V_INTERRUPT_HOUR_N_6	Voltage Interruption Hour @ n-6	unsigned short	RO	0	46826
V_INTERRUPT_MINUTE_N_6	Voltage Interruption Minute @ n-6	unsigned short	RO	0	46827
V_INTERRUPT_SECOND_N_6	Voltage Interruption Second @ n-6	unsigned short	RO	0	46828
V_INTERRUPT_DURATION_N_6	Voltage Interruption Duration [ms] @ n-6	unsigned short	RO	0	46829
V_INTERRUPT_QUERY_N_6	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46830
V_INTERRUPT_VALUE_N_7	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-7	float	RO	0	46831
V_INTERRUPT_YEAR_N_7	Voltage Interruption Year @ n-7	unsigned short	RO	0	46833
V_INTERRUPT_MONTH_N_7	Voltage Interruption Month @ n-7	unsigned short	RO	0	46834
V_INTERRUPT_DAY_N_7	Voltage Interruption Day @ n-7	unsigned short	RO	0	46835
V_INTERRUPT_HOUR_N_7	Voltage Interruption Hour @ n-7	unsigned short	RO	0	46836
V_INTERRUPT_MINUTE_N_7	Voltage Interruption Minute @ n-7	unsigned short	RO	0	46837
V_INTERRUPT_SECOND_N_7	Voltage Interruption Second @ n-7	unsigned short	RO	0	46838
V_INTERRUPT_DURATION_N_7	Voltage Interruption Duration [ms] @ n-7	unsigned short	RO	0	46839
V_INTERRUPT_QUERY_N_7	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46840
V_INTERRUPT_VALUE_N_8	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-8	float	RO	0	46841
V_INTERRUPT_YEAR_N_8	Voltage Interruption Year @ n-8	unsigned short	RO	0	46843
V_INTERRUPT_MONTH_N_8	Voltage Interruption Month @ n-8	unsigned short	RO	0	46844
V_INTERRUPT_DAY_N_8	Voltage Interruption Day @ n-8	unsigned short	RO	0	46845
V_INTERRUPT_HOUR_N_8	Voltage Interruption Hour @ n-8	unsigned short	RO	0	46846
V_INTERRUPT_MINUTE_N_8	Voltage Interruption Minute @ n-8	unsigned short	RO	0	46847
V_INTERRUPT_SECOND_N_8	Voltage Interruption Second @ n-8	unsigned short	RO	0	46848
V_INTERRUPT_DURATION_N_8	Voltage Interruption Duration [ms] @ n-8	unsigned short	RO	0	46849
V_INTERRUPT_QUERY_N_8	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46850
V_INTERRUPT_VALUE_N_9	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-9	float	RO	0	46851
V_INTERRUPT_YEAR_N_9	Voltage Interruption Year @ n-9	unsigned short	RO	0	46853
V_INTERRUPT_MONTH_N_9	Voltage Interruption Month @ n-9	unsigned short	RO	0	46854
V_INTERRUPT_DAY_N_9	Voltage Interruption Day @ n-9	unsigned short	RO	0	46855
V_INTERRUPT_HOUR_N_9	Voltage Interruption Hour @ n-9	unsigned short	RO	0	46856
V_INTERRUPT_MINUTE_N_9	Voltage Interruption Minute @ n-9	unsigned short	RO	0	46857
V_INTERRUPT_SECOND_N_9	Voltage Interruption Second @ n-9	unsigned short	RO	0	46858
V_INTERRUPT_DURATION_N_9	Voltage Interruption Duration [ms] @ n-9	unsigned short	RO	0	46859

	All versions
	Only FULL version

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



Register Name	Description	Register Type	R/W	Default	Modbus Address
V_INTERRUPT_QUERY_N_9	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46860
V_INTERRUPT_VALUE_EEPROM	Voltage Interruption RMS Value (between 10% and 90% "Nominal Star Voltage") EEPROM data	float	RO	0	46861
V_INTERRUPT_YEAR_EEPROM	Voltage Interruption Year EEPROM data	unsigned short	RO	0	46863
V_INTERRUPT_MONTH_EEPROM	Voltage Interruption Month EEPROM data	unsigned short	RO	0	46864
V_INTERRUPT_DAY_EEPROM	Voltage Interruption Day EEPROM data	unsigned short	RO	0	46865
V_INTERRUPT_HOUR_EEPROM	Voltage Interruption Hour EEPROM data	unsigned short	RO	0	46866
V_INTERRUPT_MINUTE_EEPROM	Voltage Interruption Minute EEPROM data	unsigned short	RO	0	46867
V_INTERRUPT_SECOND_EEPROM	Voltage Interruption Second EEPROM data	unsigned short	RO	0	46868
V_INTERRUPT_DURATION_EEPROM	Voltage Interruption Duration [ms] EEPROM data	unsigned short	RO	0	46869
V_INTERRUPT_QUERY_EEPROM	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46870
V_FLICKER_VALUE_N_0	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-0	float	RO	0	46871
V_FLICKER_YEAR_N_0	Voltage Flicker Year @ n-0	unsigned short	RO	0	46873
V_FLICKER_MONTH_N_0	Voltage Flicker Month @ n-0	unsigned short	RO	0	46874
V_FLICKER_DAY_N_0	Voltage Flicker Day @ n-0	unsigned short	RO	0	46875
V_FLICKER_HOUR_N_0	Voltage Flicker Hour @ n-0	unsigned short	RO	0	46876
V_FLICKER_MINUTE_N_0	Voltage Flicker Minute @ n-0	unsigned short	RO	0	46877
V_FLICKER_SECOND_N_0	Voltage Flicker Second @ n-0	unsigned short	RO	0	46878
V_FLICKER_REPETITION_N_0	Voltage Flicker Repetition [ms] @ n-0	unsigned short	RO	0	46879
V_FLICKER_QUERY_N_0	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46880
V_FLICKER_VALUE_N_1	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-1	float	RO	0	46881
V_FLICKER_YEAR_N_1	Voltage Flicker Year @ n-1	unsigned short	RO	0	46883
V_FLICKER_MONTH_N_1	Voltage Flicker Month @ n-1	unsigned short	RO	0	46884
V_FLICKER_DAY_N_1	Voltage Flicker Day @ n-1	unsigned short	RO	0	46885
V_FLICKER_HOUR_N_1	Voltage Flicker Hour @ n-1	unsigned short	RO	0	46886
V_FLICKER_MINUTE_N_1	Voltage Flicker Minute @ n-1	unsigned short	RO	0	46887
V_FLICKER_SECOND_N_1	Voltage Flicker Second @ n-1	unsigned short	RO	0	46888
V_FLICKER_REPETITION_N_1	Voltage Flicker Repetition [ms] @ n-1	unsigned short	RO	0	46889
V_FLICKER_QUERY_N_1	// Voltage Interruption Type: // 0: V_L1N // 1: V_L2N // 2: V_L3N // 3: V_L1L2 // 4: V_L2L3 // 5: V_L3L1	unsigned short	RO	0	46890
V_FLICKER_VALUE_N_2	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-2	float	RO	0	46891
V_FLICKER_YEAR_N_2	Voltage Flicker Year @ n-2	unsigned short	RO	0	46893
V_FLICKER_MONTH_N_2	Voltage Flicker Month @ n-2	unsigned short	RO	0	46894
V_FLICKER_DAY_N_2	Voltage Flicker Day @ n-2	unsigned short	RO	0	46895
V_FLICKER_HOUR_N_2	Voltage Flicker Hour @ n-2	unsigned short	RO	0	46896
V_FLICKER_MINUTE_N_2	Voltage Flicker Minute @ n-2	unsigned short	RO	0	46897
V_FLICKER_SECOND_N_2	Voltage Flicker Second @ n-2	unsigned short	RO	0	46898
V_FLICKER_REPETITION_N_2	Voltage Flicker Repetition [ms] @ n-2	unsigned short	RO	0	46899
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	unsigned short	RO	0	46900
V_FLICKER_VALUE_N_3	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-3	float	RO	0	46901
V_FLICKER_YEAR_N_3	Voltage Flicker Year @ n-3	unsigned short	RO	0	46903
V_FLICKER_MONTH_N_3	Voltage Flicker Month @ n-3	unsigned short	RO	0	46904
V_FLICKER_DAY_N_3	Voltage Flicker Day @ n-3	unsigned short	RO	0	46905
V_FLICKER_HOUR_N_3	Voltage Flicker Hour @ n-3	unsigned short	RO	0	46906
V_FLICKER_MINUTE_N_3	Voltage Flicker Minute @ n-3	unsigned short	RO	0	46907
V_FLICKER_SECOND_N_3	Voltage Flicker Second @ n-3	unsigned short	RO	0	46908
V_FLICKER_REPETITION_N_3	Voltage Flicker Repetition [ms] @ n-3	unsigned short	RO	0	46909
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	unsigned short	RO	0	46910
V_FLICKER_VALUE_N_4	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-4	float	RO	0	46911
V_FLICKER_YEAR_N_4	Voltage Flicker Year @ n-4	unsigned short	RO	0	46913
V_FLICKER_MONTH_N_4	Voltage Flicker Month @ n-4	unsigned short	RO	0	46914
V_FLICKER_DAY_N_4	Voltage Flicker Day @ n-4	unsigned short	RO	0	46915
V_FLICKER_HOUR_N_4	Voltage Flicker Hour @ n-4	unsigned short	RO	0	46916
V_FLICKER_MINUTE_N_4	Voltage Flicker Minute @ n-4	unsigned short	RO	0	46917
V_FLICKER_SECOND_N_4	Voltage Flicker Second @ n-4	unsigned short	RO	0	46918
V_FLICKER_REPETITION_N_4	Voltage Flicker Repetition [ms] @ n-4	unsigned short	RO	0	46919
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	unsigned short	RO	0	46920
V_FLICKER_VALUE_N_5	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-5	float	RO	0	46921
V_FLICKER_YEAR_N_5	Voltage Flicker Year @ n-5	unsigned short	RO	0	46923
V_FLICKER_MONTH_N_5	Voltage Flicker Month @ n-5	unsigned short	RO	0	46924
V_FLICKER_DAY_N_5	Voltage Flicker Day @ n-5	unsigned short	RO	0	46925
V_FLICKER_HOUR_N_5	Voltage Flicker Hour @ n-5	unsigned short	RO	0	46926
V_FLICKER_MINUTE_N_5	Voltage Flicker Minute @ n-5	unsigned short	RO	0	46927
V_FLICKER_SECOND_N_5	Voltage Flicker Second @ n-5	unsigned short	RO	0	46928
V_FLICKER_REPETITION_N_5	Voltage Flicker Repetition [ms] @ n-5	unsigned short	RO	0	46929

	All versions
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Register Name	Description	Register Type	R/W	Default	Modbus Address
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	unsigned short	RO	0	46930
V_FLICKER_VALUE_N_6	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-6	float	RO	0	46931
V_FLICKER_YEAR_N_6	Voltage Flicker Year @ n-6	unsigned short	RO	0	46933
V_FLICKER_MONTH_N_6	Voltage Flicker Month @ n-6	unsigned short	RO	0	46934
V_FLICKER_DAY_N_6	Voltage Flicker Day @ n-6	unsigned short	RO	0	46935
V_FLICKER_HOUR_N_6	Voltage Flicker Hour @ n-6	unsigned short	RO	0	46936
V_FLICKER_MINUTE_N_6	Voltage Flicker Minute @ n-6	unsigned short	RO	0	46937
V_FLICKER_SECOND_N_6	Voltage Flicker Second @ n-6	unsigned short	RO	0	46938
V_FLICKER_REPETITION_N_6	Voltage Flicker Repetition [ms] @ n-6	unsigned short	RO	0	46939
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	unsigned short	RO	0	46940
V_FLICKER_VALUE_N_7	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-7	float	RO	0	46941
V_FLICKER_YEAR_N_7	Voltage Flicker Year @ n-7	unsigned short	RO	0	46943
V_FLICKER_MONTH_N_7	Voltage Flicker Month @ n-7	unsigned short	RO	0	46944
V_FLICKER_DAY_N_7	Voltage Flicker Day @ n-7	unsigned short	RO	0	46945
V_FLICKER_HOUR_N_7	Voltage Flicker Hour @ n-7	unsigned short	RO	0	46946
V_FLICKER_MINUTE_N_7	Voltage Flicker Minute @ n-7	unsigned short	RO	0	46947
V_FLICKER_SECOND_N_7	Voltage Flicker Second @ n-7	unsigned short	RO	0	46948
V_FLICKER_REPETITION_N_7	Voltage Flicker Repetition [ms] @ n-7	unsigned short	RO	0	46949
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	unsigned short	RO	0	46950
V_FLICKER_VALUE_N_8	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-8	float	RO	0	46951
V_FLICKER_YEAR_N_8	Voltage Flicker Year @ n-8	unsigned short	RO	0	46953
V_FLICKER_MONTH_N_8	Voltage Flicker Month @ n-8	unsigned short	RO	0	46954
V_FLICKER_DAY_N_8	Voltage Flicker Day @ n-8	unsigned short	RO	0	46955
V_FLICKER_HOUR_N_8	Voltage Flicker Hour @ n-8	unsigned short	RO	0	46956
V_FLICKER_MINUTE_N_8	Voltage Flicker Minute @ n-8	unsigned short	RO	0	46957
V_FLICKER_SECOND_N_8	Voltage Flicker Second @ n-8	unsigned short	RO	0	46958
V_FLICKER_REPETITION_N_8	Voltage Flicker Repetition [ms] @ n-8	unsigned short	RO	0	46959
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	unsigned short	RO	0	46960
V_FLICKER_VALUE_N_9	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") @ n-9	float	RO	0	46961
V_FLICKER_YEAR_N_9	Voltage Flicker Year @ n-9	unsigned short	RO	0	46963
V_FLICKER_MONTH_N_9	Voltage Flicker Month @ n-9	unsigned short	RO	0	46964
V_FLICKER_DAY_N_9	Voltage Flicker Day @ n-9	unsigned short	RO	0	46965
V_FLICKER_HOUR_N_9	Voltage Flicker Hour @ n-9	unsigned short	RO	0	46966
V_FLICKER_MINUTE_N_9	Voltage Flicker Minute @ n-9	unsigned short	RO	0	46967
V_FLICKER_SECOND_N_9	Voltage Flicker Second @ n-9	unsigned short	RO	0	46968
V_FLICKER_REPETITION_N_9	Voltage Flicker Repetition [ms] @ n-9	unsigned short	RO	0	46969
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	unsigned short	RO	0	46970
V_FLICKER_VALUE_EEPROM	Voltage Flicker RMS Value (between 10% and 90% "Nominal Star Voltage") EEPROM data	float	RO	0	46971
V_FLICKER_YEAR_EEPROM	Voltage Flicker Year EEPROM data	unsigned short	RO	0	46973
V_FLICKER_MONTH_EEPROM	Voltage Flicker Month EEPROM data	unsigned short	RO	0	46974
V_FLICKER_DAY_EEPROM	Voltage Flicker Day EEPROM data	unsigned short	RO	0	46975
V_FLICKER_HOUR_EEPROM	Voltage Flicker Hour EEPROM data	unsigned short	RO	0	46976
V_FLICKER_MINUTE_EEPROM	Voltage Flicker Minute EEPROM data	unsigned short	RO	0	46977
V_FLICKER_SECOND_EEPROM	Voltage Flicker Second EEPROM data	unsigned short	RO	0	46978
V_FLICKER_REPETITION_EEPROM	Voltage Flicker Repetition [ms] EEPROM data	unsigned short	RO	0	46979
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	unsigned short	RO	0	46980
<b>Oscilloscope waveforms</b>					
V_L1N_Oscilloscope_0	Star Voltage L1-N Sample #0	float	RO	0	46981
V_L1N_Oscilloscope_1	Star Voltage L1-N Sample #1	float	RO	0	46983
V_L1N_Oscilloscope_2	Star Voltage L1-N Sample #2	float	RO	0	46985
V_L1N_Oscilloscope_3	Star Voltage L1-N Sample #3	float	RO	0	46987
V_L1N_Oscilloscope_4	Star Voltage L1-N Sample #4	float	RO	0	46989
V_L1N_Oscilloscope_5	Star Voltage L1-N Sample #5	float	RO	0	46991
V_L1N_Oscilloscope_6	Star Voltage L1-N Sample #6	float	RO	0	46993
V_L1N_Oscilloscope_7	Star Voltage L1-N Sample #7	float	RO	0	46995
V_L1N_Oscilloscope_8	Star Voltage L1-N Sample #8	float	RO	0	46997
V_L1N_Oscilloscope_9	Star Voltage L1-N Sample #9	float	RO	0	46999
V_L1N_Oscilloscope_10	Star Voltage L1-N Sample #10	float	RO	0	47001
V_L1N_Oscilloscope_11	Star Voltage L1-N Sample #11	float	RO	0	47003
V_L1N_Oscilloscope_12	Star Voltage L1-N Sample #12	float	RO	0	47005
V_L1N_Oscilloscope_13	Star Voltage L1-N Sample #13	float	RO	0	47007
V_L1N_Oscilloscope_14	Star Voltage L1-N Sample #14	float	RO	0	47009
V_L1N_Oscilloscope_15	Star Voltage L1-N Sample #15	float	RO	0	47011
V_L1N_Oscilloscope_16	Star Voltage L1-N Sample #16	float	RO	0	47013
V_L1N_Oscilloscope_17	Star Voltage L1-N Sample #17	float	RO	0	47015
V_L1N_Oscilloscope_18	Star Voltage L1-N Sample #18	float	RO	0	47017
V_L1N_Oscilloscope_19	Star Voltage L1-N Sample #19	float	RO	0	47019
V_L1N_Oscilloscope_20	Star Voltage L1-N Sample #20	float	RO	0	47021
V_L1N_Oscilloscope_21	Star Voltage L1-N Sample #21	float	RO	0	47023
V_L1N_Oscilloscope_22	Star Voltage L1-N Sample #22	float	RO	0	47025
V_L1N_Oscilloscope_23	Star Voltage L1-N Sample #23	float	RO	0	47027
V_L1N_Oscilloscope_24	Star Voltage L1-N Sample #24	float	RO	0	47029





















	All versions
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Register Name	Description	Register Type	R/W	Default	Modbus Address
I_N_Oscilloscope_78	Line Current N Sample #78	float	RO	0	49441
I_N_Oscilloscope_79	Line Current N Sample #79	float	RO	0	49443
I_N_Oscilloscope_80	Line Current N Sample #80	float	RO	0	49445
I_N_Oscilloscope_81	Line Current N Sample #81	float	RO	0	49447
I_N_Oscilloscope_82	Line Current N Sample #82	float	RO	0	49449
I_N_Oscilloscope_83	Line Current N Sample #83	float	RO	0	49451
I_N_Oscilloscope_84	Line Current N Sample #84	float	RO	0	49453
I_N_Oscilloscope_85	Line Current N Sample #85	float	RO	0	49455
I_N_Oscilloscope_86	Line Current N Sample #86	float	RO	0	49457
I_N_Oscilloscope_87	Line Current N Sample #87	float	RO	0	49459
I_N_Oscilloscope_88	Line Current N Sample #88	float	RO	0	49461
I_N_Oscilloscope_89	Line Current N Sample #89	float	RO	0	49463
I_N_Oscilloscope_90	Line Current N Sample #90	float	RO	0	49465
I_N_Oscilloscope_91	Line Current N Sample #91	float	RO	0	49467
I_N_Oscilloscope_92	Line Current N Sample #92	float	RO	0	49469
I_N_Oscilloscope_93	Line Current N Sample #93	float	RO	0	49471
I_N_Oscilloscope_94	Line Current N Sample #94	float	RO	0	49473
I_N_Oscilloscope_95	Line Current N Sample #95	float	RO	0	49475
I_N_Oscilloscope_96	Line Current N Sample #96	float	RO	0	49477
I_N_Oscilloscope_97	Line Current N Sample #97	float	RO	0	49479
I_N_Oscilloscope_98	Line Current N Sample #98	float	RO	0	49481
I_N_Oscilloscope_99	Line Current N Sample #99	float	RO	0	49483
I_N_Oscilloscope_100	Line Current N Sample #100	float	RO	0	49485
I_N_Oscilloscope_101	Line Current N Sample #101	float	RO	0	49487
I_N_Oscilloscope_102	Line Current N Sample #102	float	RO	0	49489
I_N_Oscilloscope_103	Line Current N Sample #103	float	RO	0	49491
I_N_Oscilloscope_104	Line Current N Sample #104	float	RO	0	49493
I_N_Oscilloscope_105	Line Current N Sample #105	float	RO	0	49495
I_N_Oscilloscope_106	Line Current N Sample #106	float	RO	0	49497
I_N_Oscilloscope_107	Line Current N Sample #107	float	RO	0	49499
I_N_Oscilloscope_108	Line Current N Sample #108	float	RO	0	49501
I_N_Oscilloscope_109	Line Current N Sample #109	float	RO	0	49503
I_N_Oscilloscope_110	Line Current N Sample #110	float	RO	0	49505
I_N_Oscilloscope_111	Line Current N Sample #111	float	RO	0	49507
I_N_Oscilloscope_112	Line Current N Sample #112	float	RO	0	49509
I_N_Oscilloscope_113	Line Current N Sample #113	float	RO	0	49511
I_N_Oscilloscope_114	Line Current N Sample #114	float	RO	0	49513
I_N_Oscilloscope_115	Line Current N Sample #115	float	RO	0	49515
I_N_Oscilloscope_116	Line Current N Sample #116	float	RO	0	49517
I_N_Oscilloscope_117	Line Current N Sample #117	float	RO	0	49519
I_N_Oscilloscope_118	Line Current N Sample #118	float	RO	0	49521
I_N_Oscilloscope_119	Line Current N Sample #119	float	RO	0	49523
I_N_Oscilloscope_120	Line Current N Sample #120	float	RO	0	49525
I_N_Oscilloscope_121	Line Current N Sample #121	float	RO	0	49527
I_N_Oscilloscope_122	Line Current N Sample #122	float	RO	0	49529
I_N_Oscilloscope_123	Line Current N Sample #123	float	RO	0	49531
I_N_Oscilloscope_124	Line Current N Sample #124	float	RO	0	49533
I_N_Oscilloscope_125	Line Current N Sample #125	float	RO	0	49535
I_N_Oscilloscope_126	Line Current N Sample #126	float	RO	0	49537
I_N_Oscilloscope_127	Line Current N Sample #127	float	RO	0	49539