

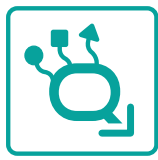


MODBUS REGISTER MAP QA-POWER-M /LV

ADDRESS LIST BASE 1 (40001)
MICROPROCESSOR'S REGISTERS BASE 0 (0000)
EXAMPLE _ to read register 40003 (address device = 1)
Tx: <01> <03> <00> <02> <00> <01> <25> <CA>

QA-POWER-M / LV
MODBUS REGISTER MAP

Register Name	Comment	Register Type	R/W	Default Value	Range	Modbus Address
Machine ID	Machine ID (1)	Unsigned short	R	3		40001
FW version	Firmware version (0)	Unsigned short	R			40002
STATUS	Status : bit 0 = fail global, bit 1 = alarm, bit 2 = overrange, bit 3 = underrange, bit 4= ?, bit 5=dout status, bit 6 = fail hw, bit 7=fail log, bit 8=fail rtc, bit 9=fail eepron	Unsigned short	R/W		0...65535	40005
Output Value	mV or uA	Unsigned short	R/W		0...20000	40006
Digital Output	bit 0=disabled/enabled	Unsigned short	R/W	0		40007
Dip switch status	bit 0-7=dip switch status, pos 1=bit 7,..., pos 8=bit 0	FLOAT (MSW)	R		0...10000	40008
Vrms	Voltage measurement rms (V)	FLOAT (MSW)	R		0...14000	40009 40010
Irms	Current measurement rms (mA)	FLOAT (MSW)	R			40011 40012
P	Active Power Measurement (W)	FLOAT (MSW)	R			40013 40014
Q	Reactive Power Measurement (VAR)	FLOAT (MSW)	R			40015 40016
S	Apparent Power Measurement (VA)	FLOAT (MSW)	R			40017 40018
Cosφ	Cosφ Measurement	FLOAT (MSW)	R		0...1	40019 40020
Frequency	Frequency Measurement (Hz)	FLOAT (MSW)	R			40021 40022
THD	THD Measurement	FLOAT (MSW)	R			40023 40024
Energy	Totale Energy Measurement (Wh)	FLOAT (MSW)	R/W			40025 40026
Energy positive	Only positive Energy Measurement (Wh)	FLOAT (MSW)	R/W			40027 40028
Energy negative	Only negative Energy Measurement (Wh)	FLOAT (MSW)	R/W			40029 40030
V peak	Instantaneous Voltage Peak (V)	FLOAT (MSW)	R/W			40031 40032
I peak	Instantaneous Current Peak (mA)	FLOAT (MSW)	R/W			40033 40034
V MAX	Max RMS Voltage (V)	FLOAT (MSW)	R/W			40035 40036
V min	Min RMS Voltage (V)	FLOAT (MSW)	R/W			40037 40038
I MAX	Max RMS Current (mA)	FLOAT (MSW)	R/W			40039 40040
I min	Min RMS Current (mA)	FLOAT (MSW)	R/W			40041 40042
P MAX	Max RMS Active Power (W)	FLOAT (MSW)	R/W			40043 40044
P min	Min RMS Active Power (W)	FLOAT (MSW)	R/W			40045 40046
Q MAX	Max Reactive Power (VAR)	FLOAT (MSW)	R/W			40047 40048
Q min	Min Reactive Power (VAR)	FLOAT (MSW)	R/W			40049 40050
S MAX	Max Apparent Power (VA)	FLOAT (MSW)	R/W			40051 40052
S min	Min Apparent Power (VA)	FLOAT (MSW)	R/W			40053 40054
Cosφ MAX	Max Cosφ	FLOAT (MSW)	R/W			40055 40056



MODBUS REGISTER MAP QA-POWER-M / LV

Table with 8 columns: Register Name, Comment, Register Type, R/W, Default Value, Range, Modbus Address. Rows include Cosφ min, Frequency MAX, Frequency min, THD MAX, THD min, Vavg, Iavg, Totalizer, data L, data M, data H, Output Analog mode, Current Ratio, Output Analog Input Begin Scale, Output Analog Input End Scale, Output Analog Begin Scale, Output Analog End Scale, Delta ENERGY, Digital Output, ALARM LOW, ALARM HIGH, ALARM HYSTERESIS, Modbus Address + Parity + StopBits, Modbus Boudrate, Log Mode, Log Sample time, Log name (multiple), RMS Filter, Average measurement filter.

QA-POWER-M / LV MODBUS REGISTER MAP





MODBUS REGISTER MAP QA-POWER-M / LV

QA-POWER-M / LV MODBUS REGISTER MAP

Register Name	Comment	Register Type	R/W	Default Value	Range	Modbus Address
Cut off Voltage	Cut off Voltage (V)	FLOAT (LSW)	R/W	0		40135
						40136
Cut off Current	Cut off Current (mA)	FLOAT (LSW)	R/W	0		40137
						40138
Cut off P	Cut off P (W)	FLOAT (LSW)	R/W	0		40139
						40140
Vrms SW	Vrms (V)	FLOAT (LSW)	R			40201
						40202
Irms SW	Irms (mA)	FLOAT (LSW)	R			40203
						40204
P SW	Active Power (W)	FLOAT (LSW)	R			40205
						40206
Q SW	Reactive Power (VAR)	FLOAT (LSW)	R			40207
						40208
S SW	Apparent Power (VA)	FLOAT (LSW)	R			40209
						40210
Cosp SW	Cosp	FLOAT (LSW)	R			40211
						40212
Frequency SW	Frequency (Hz)	FLOAT (LSW)	R			40213
						40214
THD SW	THD	FLOAT (LSW)	R			40215
						40216
TOTAL ENERGY SW	Total Energy (Wh)	FLOAT (LSW)	R/W			40217
						40218
Positive Energy SW	Positive Energy (Wh)	FLOAT (LSW)	R/W			40219
						40220
Negative Energy SW	Negative Energy (Wh)	FLOAT (LSW)	R/W			40221
						40222
Vpeak SW	Vpk (V)	FLOAT (LSW)	R/W			40223
						40224
Ipeak SW	Ipk (mA)	FLOAT (LSW)	R/W			40225
						40226
Vrms MAX SW	Vrms MAX (V)	FLOAT (LSW)	R/W			40227
						40228
Vrms min SW	Vrms MIN (V)	FLOAT (LSW)	R/W			40229
						40230
Irms MAX SW	Irms MAX (A)	FLOAT (LSW)	R/W			40231
						40232
Irms min SW	Irms MIN (mA)	FLOAT (LSW)	R/W			40233
						40234
P MAX SW	Active Power MAX (W)	FLOAT (LSW)	R/W			40235
						40236
P min SW	Active Power MIN (W)	FLOAT (LSW)	R/W			40237
						40238
Q MAX SW	Reactive Power MAX (VAR)	FLOAT (LSW)	R/W			40239
						40240
Q min SW	Reactive Power MIN (VAR)	FLOAT (LSW)	R/W			40241
						40242
S MAX SW	Apparent Power MAX (VA)	FLOAT (LSW)	R/W			40243
						40244
S min SW	Apparent Power MIN (VA)	FLOAT (LSW)	R/W			40245
						40246
Cosp MAX SW	Cosp MAX	FLOAT (LSW)	R/W			40247
						40248
Cosp min SW	Cosp MIN	FLOAT (LSW)	R/W			40249
						40250
Frequency MAX SW	Frequency MAX (Hz)	FLOAT (LSW)	R/W			40251
						40252
Frequency MIN SW	Frequency MIN (Hz)	FLOAT (LSW)	R/W			40253
						40254



**MODBUS REGISTER MAP****QA-POWER-M / LV**

Register Name	Comment	Register Type	R/W	Default Value	Range	Modbus Address
THD MAX SW	THD MAX	FLOAT (LSW)	R/W			40255
						40256
THD min SW	THD min	FLOAT (LSW)	R/W			40257
						40258
Vrms x 100	Vrms (V) x 100	SIGNED LONG (MSW)	R			40301
						40302
Irms x 100	Irms (mA) x 100	SIGNED LONG (MSW)	R			40303
						40304
P x 100	Active Power (W) x 100	SIGNED LONG (MSW)	R			40305
						40306
Q x 100	Reactive Power (VAR) x 100	SIGNED LONG (MSW)	R			40307
						40308
S x 100	Apparent Power (VA) x 100	SIGNED LONG (MSW)	R			40309
						40310
Cosφ x 100	Cosφ x 100	SIGNED LONG (MSW)	R			40311
						40312
Frequency x 100	Frequency (Hz) x 100	SIGNED LONG (MSW)	R			40313
						40314
THD x 100	THD x 100	SIGNED LONG (MSW)	R			40315
						40316
ENERGY x 100	Energy (Wh) x 100	SIGNED LONG (MSW)	R/W			40317
						40318
Positive Energy x 100	Positive Energy (Wh) x 100	SIGNED LONG (MSW)	R/W			40319
						40320
Negative Energy x 100	Negative Energy (Wh) x 100	SIGNED LONG (MSW)	R/W			40321
						40322
V peak x 100	Vpk (V) x 100	SIGNED LONG (MSW)	R/W			40323
						40324
I peak x 100	Ipk (mA) x 100	SIGNED LONG (MSW)	R/W			40325
						40326
Vrms MAX x 100	Vrms MAX (V) x 100	SIGNED LONG (MSW)	R/W			40327
						40328
Vrms min x 100	Vrms MIN (V) x 100	SIGNED LONG (MSW)	R/W			40329
						40330
Irms MAX x 100	Irms MAX (mA) x 100	SIGNED LONG (MSW)	R/W			40331
						40332
Irms min x 100	Irms MIN (mA) x 100	SIGNED LONG (MSW)	R/W			40333
						40334
P MAX x 100	Active Power MAX (W) x 100	SIGNED LONG (MSW)	R/W			40335
						40336
P min x 100	Active Power MIN (W) x 100	SIGNED LONG (MSW)	R/W			40337
						40338
Q MAX x 100	Reactive Power MAX (VAR) x 100	SIGNED LONG (MSW)	R/W			40339
						40340
Q min x 100	Reactive Power MIN (VAR) x 100	SIGNED LONG (MSW)	R/W			40341
						40342
S MAX x 100	Apparent Power MAX (VA) x 100	SIGNED LONG (MSW)	R/W			40343
						40344
S min x 100	Apparent Power MIN (VA) x 100	SIGNED LONG (MSW)	R/W			40345
						40346
Cosφ MAX x 100	Cosφ MAX x 100	SIGNED LONG (MSW)	R/W			40347
						40348
Cosφ min x 100	Cosφ MIN x 100	SIGNED LONG (MSW)	R/W			40349
						40350
Frequency MAX x 100	Frequency MAX (Hz) x 100	SIGNED LONG (MSW)	R/W			40351
						40352
Frequency min x 100	Frequency MIN (Hz) x 100	SIGNED LONG (MSW)	R/W			40353
						40354

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MODBUS REGISTER MAP





MODBUS REGISTER MAP

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MODBUS REGISTER MAP

Register Name	Comment	Register Type	R/W	Default Value	Range	Modbus Address
THD MAX x 100	THD MAX x 100	SIGNED LONG (MSW)	R/W			40355
						40356
THD min x 100	THD min x 100	SIGNED LONG (MSW)	R/W			40357
						40358
RTC YEAR	RTC : year (2000-2099)	UNIT16	R/W			41001
RTC MOUNTH	RTC : month (1-12)	UNIT16	R/W			41002
RTC DAY	RTC : day month (1-31)	UNIT16	R/W			41003
RTC HOUR	RTC : hour (0-23)	UNIT16	R/W			41004
RTC MINUTE	RTC : minute (0-59)	UNIT16	R/W			41005
RTC SEC	RTC : second (0-59)	UNIT16	R/W			41006

REMARKS:

- Modbus connections: A+ and B- as per Modbus RTU standards;
- Modbus Register reference: with reference to the logical address, for ex. 40010, corresponds to physical address n°9 as per Modbus RTU standard;
- Dip Switch Settings: the setting is not enabled if the first sixth dip-switches are set to 000000, the rest of dip-switch are disabled. All settings coming from EEPROM;
- Modbus functions supported: 3 (Read multiple registers), 6 (Write single register), 16 (Write multiple register).

Any changes made by dip-switch required to switch off the power supply.

