Modbus Register Map QI-POWER-485

Register Name	Comment	Register Type	R/W	Default Value	Range	Modbus Address
Machine ID	Machine ID: QI-POWER-485 (7), QI-POWER-485-LV (19), QI-POWER-485-300 (18), QI-POWER-485-300-LV (22)	Unsigned short	R			**40001**
FW version	Firmware version	Unsigned short	R	0		**40002**
Address	Modbus address	Unsigned short	R/W	1		**40003**
Delay	Machine answer delay (in characters)	Unsigned short	R/W	1	0...1000	**40004**
Baudrate	0= 1200, 1= 2400, 2= 4800, 3= 9600, 4= 19200, 5= 38400, 6= 57600, 7= 115200	Unsigned short	R/W	1	0...7	**40005**
Parity	0= NO, 1= ODD, 2= EVEN	Unsigned short	R/W	0	0...2	**40006**
DC Filter	Number of tenths of second (1/10) for all RMS calculation in DC	Unsigned short	R/W	10	1...65535	**40007**
Flag Measurement	**bit 0 :**[0= TRMS value (without sign); 1 = DC_measurement (with sign)]; **bit 1 :**[0= Energy storing disable; 1= Energy storing enable]; **bit 2** :[0= Frequency detect on Voltage channel; 1= Frequency detect on Current channel].	Unsigned short	R/W	0x10		**40008**
TV_Ratio	Voltage transformer ratio	Float (LSW first)	R/W	1.0		**40009** **40010**
TA_Ratio	Current transformer ratio	Float (LSW first)	R/W	1.0		**40011** **40012**
Current and Power CUT OFF	**LSB: Current** in mA (**250**) for QI-POWER-485 and QI-POWER-485-LV, in 10xmA (**1500**) for QI-POWER-485-300 and QI-POWER-485-300-LV **MSB: Power** in W (**1**) for QI-POWER-485 and QI-POWER-485-LV, in 10xW (**10**) for QI-POWER-485-300 and QI-POWER-485-300-LV	Unsigned short	R/W	see Comment		**40013**
# of ZX for VI measurement	Number of ZX for_AC Meas Number of line cycle Zero Crossings for AC measurement RMS.	Unsigned short	R/W	50	1...65535	**40014**
STATUS	**bit 0**: flash settings error; **bit1:** flash calibration error; **bit 2**: Voltage Over Range; **bit 3**: Voltage Under Range; **bit [4:5]** don't care; **bit 6:** Zero crossing detecting; **bit [7:9]** don't care; **bit 10:** Energy storing error; **bit 11:** Energy initialization error; **bit 12**: don't care; **bit 13**: Current Over Range; **bit 14**: Current Under Range; **bit 15**: don't care.	Unsigned short	R	0		**40072**
V RMS	Voltage RMS Measurement (V)	Float (LSW first)	R			**40073** **40074**
I RMS	Current RMS Measurement (mA)	Float (LSW first)	R			**40075** **40076**
P	Active Power Measurement (W)	Float (LSW first)	R			**40077** **40078**
Q	Reactive Power Measurement (VAR)	Float (LSW first)	R			**40079** **40080**
S	Apparent Power Measurement (VA)	Float (LSW first)	R			**40081** **40082**
Cosφ	Cosφ Measurement	Float (LSW first)	R			**40083** **40084**
Frequency	Frequency Measurement (Hz)	Float (LSW first)	R			**40085** **40086**
THD	THD Measurement	Float (LSW first)	R			**40087** **40088**
Energy	Totale Energy Measurement (KWh)	Float (LSW first)	R			**40089** **40090**
Energy positive	Only positive Energy Measurement (KWh)	Float (LSW first)	R			**40091** **40092**
Energy negative	Only negative Energy Measurement (KWh)	Float (LSW first)	R			**40093** **40094**
V peak	Instantaneous Voltage Peak (V)	Float (LSW first)	R/W			**40095** **40096**
I peak	Instantaneous Current Peak (mA)	Float (LSW first)	R/W			**40097** **40098**
V MAX	Max RMS Voltage (V)	Float (LSW first)	R/W			**40099** **40100**
V min	Min RMS Voltage (V)	Float (LSW first)	R/W			**40101** **40102**
I MAX	Max RMS Current (mA)	Float (LSW first)	R/W			**40103** **40104**
I min	Min RMS Current (mA)	Float (LSW first)	R/W			**40105** **40106**
P MAX	Max RMS Power (W)	Float (LSW first)	R/W			**40107** **40108**

Modbus Register Map QI-POWER-485

Register Name	Comment	Register Type	R/W	Default Value	Range	Modbus Address
P min	Min RMS Power (W)	Float (LSW first)	R/W			**40109**
						40110
Q MAX	Max Reactive Power (VAR)	Float (LSW first)	R/W			**40111**
						40112
Q min	Min Reactive Power (VAR)	Float (LSW first)	R/W			**40113**
						40114
S MAX	Max Apparent Power (VA)	Float (LSW first)	R/W			**40115**
						40116
S min	Min Apparent Power (VA)	Float (LSW first)	R/W			**40117**
						40118
Cosφ MAX	Max Cosφ	Float (LSW first)	R/W			**40119**
						40120
Cosφ min	Min Cosφ	Float (LSW first)	R/W			**40121**
						40122
Frequency MAX	Max Frequency (Hz)	Float (LSW first)	R/W			**40123**
						40124
Frequency min	Min Frequency (Hz)	Float (LSW first)	R/W			**40125**
						40126
THD MAX	Max THD	Float (LSW first)	R/W			**40127**
						40128
THD min	Min THD	Float (LSW first)	R/W			**40129**
						40130
STATUS SW	**bit 0**: flash settings error; **bit1:** flash calibration error; **bit 2**: Voltage Over Range; **bit 3**: Voltage Under Range; **bit [4:5]** don't care; **bit 6:** Zero crossing detecting; **bit [7:9]** don't care; **bit 10:** Energy storing error; **bit 11:** Energy initialization error; **bit 12**: don't care; **bit 13**: Current Over Range; **bit 14**: Current Under Range;**bit 15**: don't care.	Unsigned short	R			**40132**
V RMS SW	Voltage RMS measurement (V) swapped	Float (MSW first)	R			**40133**
						40134
I RMS SW	Current RMS measurement (mA) swapped	Float (MSW first)	R			**40135**
						40136
P SW	Power measurement (W) swapped	Float (MSW first)	R			**40137**
						40138
Q SW	Reactive Power measurement Q (VAR) swapped	Float (MSW first)	R			**40139**
						40140
S SW	Apparent Power measurement S (VA) swapped	Float (MSW first)	R			**40141**
						40142
Cosφ SW	Cosφ measurement swapped	Float (MSW first)	R			**40143**
						40144
Frequency SW	Frequency measurement (Hz) swapped	Float (MSW first)	R			**40145**
						40146
THD SW	THD swapped	Float (MSW first)	R			**40147**
						40148
Energy SW	Total Energy measurement (KWh) swapped	Float (MSW first)	R			**40149**
						40150
Energy positive SW	Only positive Energy Measurement (KWh) swapped	Float (MSW first)	R			**40151**
						40152
Energy negative SW	Only negative Energy Measurement (KWh) swapped	Float (MSW first)	R			**40153**
						40154
V peak SW	Instantaneous Voltage Peak (V) swapped	Float (MSW first)	R/W			**40155**
						40156
I peak SW	Instantaneous Current Peak (mA) swapped	Float (MSW first)	R/W			**40157**
						40158
V MAX SW	Max RMS Voltage (V) swapped	Float (MSW first)	R/W			**40159**
						40160
V min SW	Min RMS Voltage (V) swapped	Float (MSW first)	R/W			**40161**
						40162
I MAX SW	Max RMS Current (mA) swapped	Float (MSW first)	R/W			**40163**
						40164
I min SW	Min RMS Current (mA) swapped	Float (MSW first)	R/W			**40165**
						40166

Modbus Register Map

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Register Name	Comment	Register Type	R/W	Default Value	Range	Modbus Address
P MAX SW	Max RMS Power (W) swapped	Float (MSW first)	R/W			**40167**
						40168
P min SW	Min RMS Power (W) swapped	Float (MSW first)	R/W			**40169**
						40170
Q MAX SW	Max Reactive Power (VAR) swapped	Float (MSW first)	R/W			**40171**
						40172
Q min SW	Min Reactive Power (VAR) swapped	Float (MSW first)	R/W			**40173**
						40174
S MAX SW	Max Apparent Power (VA) swapped	Float (MSW first)	R/W			**40175**
						40176
S min SW	Min Apparent Power (VA) swapped	Float (MSW first)	R/W			**40177**
						40178
Cosφ MAX SW	Max Cosφ swapped	Float (MSW first)	R/W			**40179**
						40180
Cosφ min SW	Min Cosφ swapped	Float (MSW first)	R/W			**40181**
						40182
Frequency MAX SW	Max Frequency (Hz) swapped	Float (MSW first)	R/W			**40183**
						40184
Frequency min SW	Min Frequency (Hz) swapped	Float (MSW first)	R/W			**40185**
						40186
THD MAX SW	Max THD swapped	Float (MSW first)	R/W			**40187**
						40188
THD min SW	min THD swapped	Float (MSW first)	R/W			**40189**
						40190
STATUS 100	**bit 0**: flash settings error; **bit1:** flash calibration error; **bit 2**: Voltage Over Range; **bit 3**: Voltage Under Range; **bit [4:5]** don't care; **bit 6:** Zero crossing detecting; **bit[7:9]** don't care; **bit 10:** Energy storing error; **bit11:** Energy initialization error; **bit 12**: don't care; **bit 13**: Current Over Range; **bit 14**: Current Under Range;	Unsigned short	R			**40192**
V RMS 100	Voltage RMS measurement (V/100) in hundredths	Signed long (LSW first)	R			**40193**
						40194
I RMS 100	Current RMS measurement (mA/100) in hundredths	Signed long (LSW first)	R			**40195**
						40196
P 100	Power measurement (W/100) in hundredths	Signed long (LSW first)	R			**40197**
						40198
Q 100	Reactive Power measurement (VAR/100) in hundredths	Signed long (LSW first)	R			**40199**
						40200
S 100	Apparent Power measurement (VA/100) in hundredths	Signed long (LSW first)	R			**40201**
						40202
Cosφ 100	Cosφ measurement in hundredths	Signed long (LSW first)	R			**40203**
						40204
Frequency 100	Frequency measurement (Hz/100) in hundredths	Signed long (LSW first)	R			**40205**
						40206
THD 100	THD in hundredths	Signed long (LSW first)	R			**40207**
						40208
Energy 100	Total Energy measurement (KWh/100) in hundredths	Signed long (LSW first)	R			**40209**
						40210
Energy positive 100	Only positive Energy Measurement (KWh/100) in hundredths	Signed long (LSW first)	R			**40211**
						40212
Energy negative 100	Only negative Energy Measurement (KWh/100) in hundredths	Signed long (LSW first)	R			**40213**
						40214
V peak 100	Instantaneous Voltage Peak (V/100) in hundredths	Signed long (LSW first)	R/W			**40215**
						40216
I peak 100	Instantaneous Current Peak (mA/100) in hundredths	Signed long (LSW first)	R/W			**40217**
						40218
V MAX 100	Max RMS Voltage (V/100) in hundredths	Signed long (LSW first)	R/W			**40219**
						40220
V min 100	Min RMS Voltage (V/100) in hundredths	Signed long (LSW first)	R/W			**40221**
						40222
I MAX 100	Max RMS Current (mA/100) in hundredths	Signed long (LSW first)	R/W			**40223**
						40224

Mappa dei Registri Mobus QI-POWER-485

Register Name	Comment	Register Type	R/W	Default Value	Range	Modbus Address
I min 100	Min RMS Current (mA/100) in hundredths	Signed long (LSW first)	R/W			**40225**
						40226
P MAX 100	Max RMS Power (W/100) in hundredths	Signed long (LSW first)	R/W			**40227**
						40228
P min 100	Min RMS Power (W/100) in hundredths	Signed long (LSW first)	R/W			**40229**
						40230
Q MAX 100	Max Reactive Power (VAR/100) in hundredths	Signed long (LSW first)	R/W			**40231**
						40232
Q min 100	Min Reactive Power (VAR/100) in hundredths	Signed long (LSW first)	R/W			**40233**
						40234
S MAX 100	Max Apparent Power (VA/100) in hundredths	Signed long (LSW first)	R/W			**40235**
						40236
S min 100	Min Apparent Power (VA/100) in hundredths	Signed long (LSW first)	R/W			**40237**
						40238
Cosφ MAX 100	Max Cosφ in hundredths	Signed long (LSW first)	R/W			**40239**
						40240
Cosφ min 100	Min Cosφ in hundredths	Signed long (LSW first)	R/W			**40241**
						40242
Frequency MAX 100	Max Frequency (Hz/100) in hundredths	Signed long (LSW first)	R/W			**40243**
						40244
Frequency min 100	Min Frequency (Hz/100) in hundredths	Signed long (LSW first)	R/W			**40245**
						40246
THD MAX 100	Max THD in hundredths	Signed long (LSW first)	R/W			**40247**
						40248
THD min 100	min THD in hundredths	Signed long (LSW first)	R/W			**40249**
						40250
Command	**Flash settings save command** = 0xC1C0; **Reset command** = 0xC1A0; **Load Energy command** = 0xBABA (energy to load must be written in Command_aux); **Load Positive Energy command** = 0xBABB (positive energy to load must be written in Command_aux); **Load Negative Energy command** = 0xBABC (negative energy to load must be written in Command_aux);	Unsigned short	R/W	0		**40252**
Command aux	Auxiliary Register for Energy Command (see command register)	Float (LSW first)	R/W	0		**40253**
						40254