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 — QI-POWER-485

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**