

QC-PM485 - Shorter User Manual

Technical Parameters

 Voltage:
 230V

 Current:
 10(100) A

 Accuracy class:
 1.0

Standard: IEC62052-11, IEC62053-21

Frequency: 50-60Hz Impulse constant: 1000imp/kWh

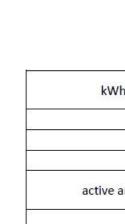
Display: LCD 5+1 = 99999.9kW

Power consumption: ≤8VA ≤0.4Wh

Starting current: 0.004lb Temperature range: $-20\sim65^{\circ}\text{C}$

Flashing red: Impulse indication, width=90ms

Average humidity value of year: 75% Maximal value: 95%

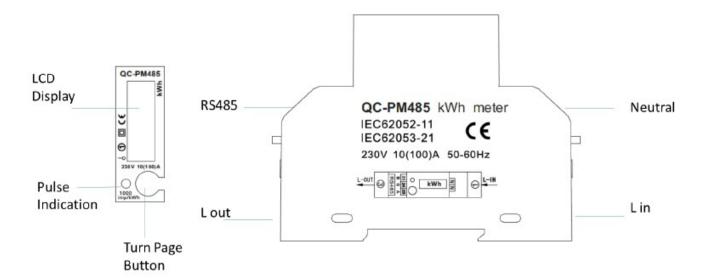


kWh, V, A, kW, kVAr, KVA, Cos P	hi
01	
9600	
8 bits NONE	
active and reactive energy measure	ment
5s	
1000imp/kWh	
blue	

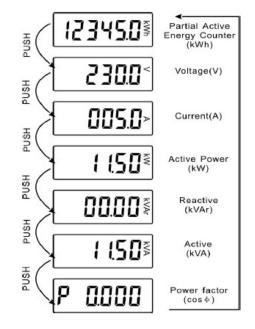
Icd scrolling pages	
Modbus ID	
Baud rate	
Parity	
Energy Calculation	
Scroll time	
S0 output	
Backlight	



Description



Parameters show on the LCD screen



Connection Diagram



Note: 23.24.25 are corresponding to A,G,B. If RS485 transverter does not have G port, it's OK to disconnect it. The Neutral wire can be connected to one of N ports or both.

To configure the device please use the free software for QC-PM485. Download it from www.qeed.it

LCD POWER METER

DIN RAIL MOUNTING



Register map

Register Name	Description	Register Type	R/W	Default	Modbus Address
Voltage	devide by 10 to read V (91F = 2335 = 233,5V)	unsigned short	R	-	40000
Current	devide by 10 to read A	unsigned short	R	-	40001
Frequency		unsigned short	R	-	40002
Active power	result is W – device by 1000 to get kW	unsigned short	R	-	40003
Reactive power	result is VAR – device by 1000 to get KVAR	unsigned short	R	-	40004
Apparent power	result is VA – device by 1000 to get KVA	unsigned short	R	-	40005
Power factor		unsigned short	R	-	40006
Active energy	devide by 100 to get kW / 5 blocks of 4 byte / Total ; T1 ; T2 ; T3 ; T4	unsigned long	R/W	-	40007
Reactive energy	devide by 100 to get kW / 5 blocks of 4 byte / Total ; T1 ; T2 ; T3 ; T4	unsigned long	R/W	-	40011
Baud rate	01 = 1200 ; 02 = 2400 ; 03 = 4800 ; 04 = 9600	unsigned short	R/W	04	4002a
Meter ID	000 = broadcast ; meter ID between 1 – 247	unsigned short	R/W	001	4002b
Password	Reset password and write within 10 seconds the command for change meter ID or reset active energy or change the baud rate	unsigned short	W	00000000	4002c

Example reading/writing

read voltage

write 01 03 00 00 00 01 [CRC16] received from meter 01 03 02 08 c0 [bf d4]

01 = meter address 03 = read command 02 = data blocks 08 c0 = 2240 = 224,0 V

read active energy

write 00 03 00 07 00 0A [CRC16]

received from meter 01 03 14 00 00 04 D2 00 00 04 D2 00 00 00 00 00 00 00 00 00 00 00 00 [23 D8]

01 = meter address 03 = read command 14 = data blocks

00 00 04 D2 = 1234 (= 12,34kWh) for total active energy 00 00 04 D2 = 1234 (= 12,34kWh) for active energy T1 00 00 00 00 = 0000 (= 0,00kWh) for active energy T2 00 00 00 00 = 0000 (= 0,00kWh) for active energy T3 00 00 00 00 = 0000 (= 0,00kWh) for active energy T4

reset active energy

write 01 28 FE 01 00 02 04 00 00 00 00 [CRC16]

received from meter 01 28 FE 01 00 01 [C0 24] enter this energy reset line within 10 seconds after password reset

received from meter 01 10 03 4C 00 0A [81 9D]

Change meter ID

write 01 28 FE 01 00 02 04 00 00 00 [CRC16]

received from meter 01 28 FE 01 00 01 [C0 24] enter this energy reset line within 10 seconds after password reset

write 01 10 00 2b 00 01 02 00 01 [CRC16] (HEX format)

received from meter 01 10 00 2b 00 01 [71 c1]

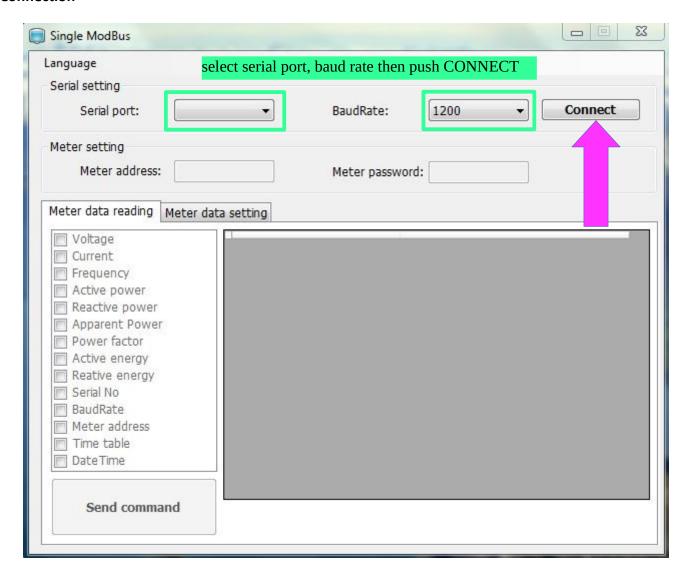
LCD POWER METER DIN RAIL MOUNTING





Modbus-Single _ configuration software

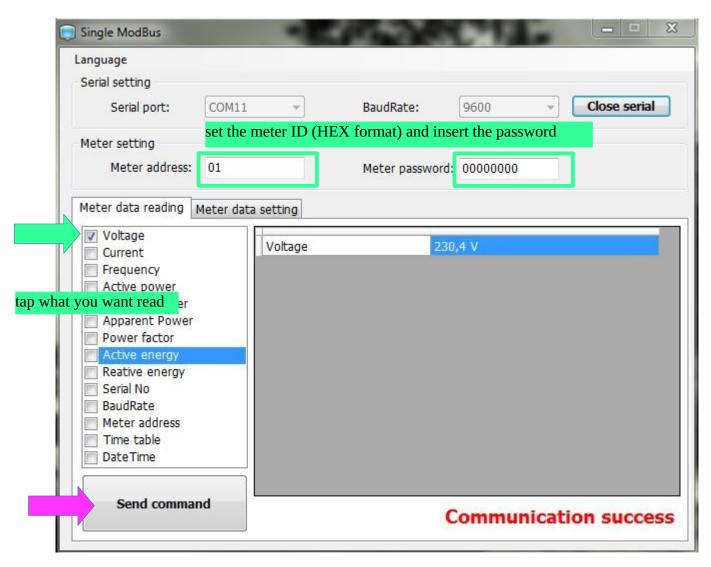
Connection



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Reading mode



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Setting mode

