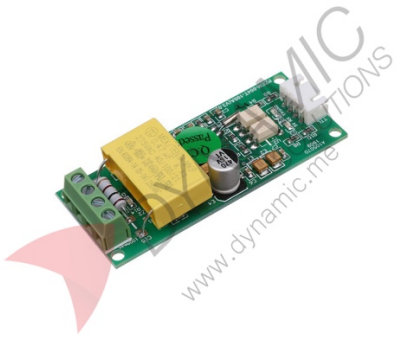
DYNAMIC SOLUTIONS

Jounieh, International Highway
Keserwan, Lebanon

T 00961 29 44 44 05
M 00961 79 35 00 85

info@dynamic.me

PZEM-004T V3.0 Power Meter 100A



Features:

The PZEM-004T V3.0 measures AC voltage, current, active power, energy, frequency and power factor, and has no display. The 100A version reads current through the 33mm CT coil. It sends data over passive TTL serial using Modbus-RTU at 9600bps, 8N1. It has an adjustable over-power alarm and energy reset by command. It needs an external 5V on the TTL side with all four pins (5V, RX, TX, GND) connected, and AC must be connected for readings to appear.

Specifications	
Voltage Range	80-260V AC
Voltage Resolution	0.1 V
Voltage Accuracy	0.5%
Current Range	0-100 A
Current Starting Value	0.02 A
Current Resolution	0.001 A
Current Accuracy	0.5%
Active Power Range	0-23 kW
Active Power Starting Value	0.4 W
Active Power Resolution	0.1 W
Active Power Accuracy	0.5%
Power Display	<1000 W: 1 decimal; >=1000 W: integer
Active Energy Range	0-9999.99 kWh
Active Energy Resolution	1 Wh
Active Energy Accuracy	0.5%
Energy Display	<10 kWh: Wh; >=10 kWh: kWh
Frequency Range	45-65 Hz
Frequency Resolution	0.1 Hz
Frequency Accuracy	0.5%
Power Factor Range	0.00-1.00
Power Factor Resolution	0.01
Power Factor Accuracy	1%
Interface	TTL serial, Modbus-RTU
Serial Format	9600 bps, 8 data bits, 1 stop bit, no parity
Slave Address	0x01-0xF7 (default 0x01)
Logic Supply	5V DC (external)
Current Sensor	External CT coil, 33 mm diameter
Over-power Alarm	Adjustable threshold
Board Size	73 x 30.1 mm

DYNAMIC SOLUTIONS

Jounieh, International Highway
Keserwan, Lebanon

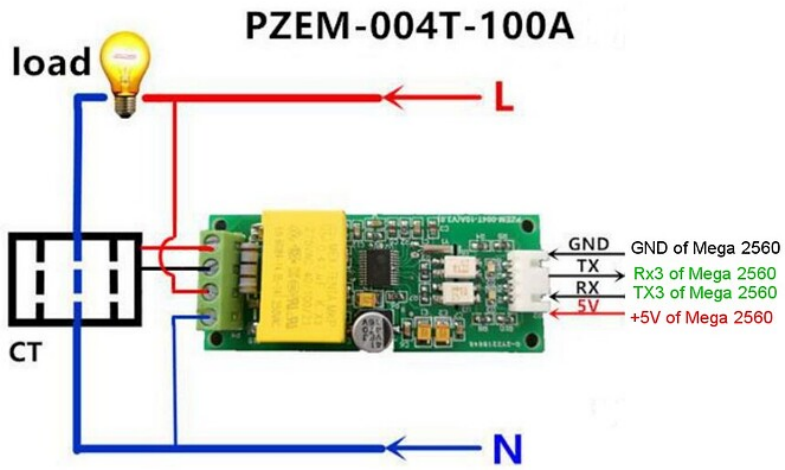
T 00961 29 44 44 05
M 00961 79 35 00 85

info@dynamic.me

Operating Temperature	-20C to 60C
Usage	AC energy monitoring with Arduino, ESP8266, ESP32 and Raspberry Pi

Pinouts:

Pin	Name	Function
1	5V	5V DC supply for TTL interface
2	RX	Serial receive, connect to MCU TX
3	TX	Serial transmit, connect to MCU RX
4	GND	Ground, common with MCU
T1	L	AC live input (voltage measurement)
T2	N	AC neutral input (voltage measurement)
T3	CT	Current transformer input
T4	CT	Current transformer input



Product Pictures:



