# **TECO** Group TECOM CO., Ltd.

## Smart multi-function 3-phase Power Meter

PM-300 Series smart multi-function three-phase network power meter is a suitable low-voltage system for intelligent devices, collecting data and control functions in one device, with the measurement of electrical parameters and energy measurement, to provide communication interface and computer monitoring system Connection, support RS485 interface with MODBUS-RTU protocol.

PM-300 provides full benifits, such as dedicated display module, display a number of data information, intuitive user interface, easy to understand operation.

#### **Functions**

- Multi-function three-phase meter measurement capabilities
- ◆ Full-featured : Monitors a single / regional / overall power circuit with a single instrument.
- High reliability: Professional design, in line with international and IEC standards for anti-jam ming performance, ISO9000 quality assurance.
- Small size : It can be installed in a small switch box.
- ◆ Easy to install: Self-locking mounting mechanism, installation or removal are very convenient and quick.
- ◆ Flexible wiring: Suitable for a variety of high and low voltage wiring system.
- Convenient configuration : Adopt RS-485 communication interface, support ModBUS-RTU, connect with all kinds of PLC in the industry, communication with multiple software.

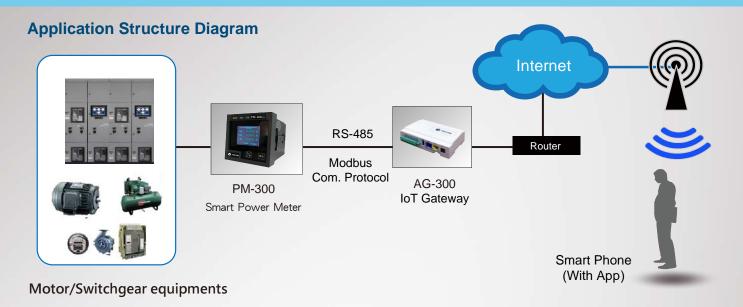
#### Capabilities

- 1. Line voltage: Vrs, Vst, Vtr
- 2. Three-phase voltage: Vr, Vs, Vt
- 3. Three-phase current: Ir, Is, It
- 4. Power: active power, reactive power, apparent power
- 5. Power Factor
- 6. Frequency
- 7. Electricity measurement: active energy, reactive energy

#### **Product Images**



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#### **Specifications**

Relay output

Output format: mechanical contact

Max. voltage: 250VAC, 30VDC

Max. current: 5A

Equipment withstand voltage, dielectric strength

Power, voltage loop> 2KV

Current loop> 2.5KV

Switch input

Photo coupler isolation

Isolation voltage: 2500Vrms

Passive empty contact input

Working power: 85 ~ 265V AC / DC

Power consumption: <4W</li>
 Communication: RS-485 interface

• Baud Rate: 2400 ~ 57600bps Optional

Modbus-RTU, DL / T645 protocol

Voltage input

 Rated voltage: 100VAC or 400VAC, allowing 20% of the overrun

Overload: 2 times the rated value (continuous);
 2500VAC / 1 second (no cycle)

Measurement form: True RMS

Frequency range: 45 ~ 65Hz

PT loop power consumption: <0.2VA</li>

**Current input** 

 Rated current: 5A or 1A, allowing 20% of the overrun

Overload: 2 times the rated value (continuous);
 100A / 1 second (no cycle)

Measurement form: True RMS

• Frequency range: 45 ~ 65Hz

CT loop power consumption: <0.2VA</li>

#### **Accuracy specifications**

Measurement parameters	Measurement accuracy	Resolution	Range
Voltage U(Volts)	0.20%	0.10%	0 ~ 999,999V
Current I(Amps)	0.20%	0.10%	0 ~ 30,000A
Active Power P(KW)	0.50%	0.10%	0 ~ 999,999KW
Reactive Power Q(KVAR)	2.00%	0.10%	0 ~ 999,999KVAR
Apparent Power S(KVA)	0.50%	0.10%	0 ~ 999,999KVA
Power Factor (COSФ)	0.50%	1.00%	-0.6 ~ 1.0
Frequency F(Hz)	0.02Hz	0.1Hz	45 ~ 65Hz
Active Energy (KWH/KVARH)	0.50%	1KWH, KVARH	0 ~ 999,999,999(KWH/KVARH)
Reactive Energy (KWH/KVARH)	2.00%	1KWH, KVARH	0 ~ 999,999,999(KWH/KVARH)

Operating temperature: -20  $^{\circ}$ C  $^{\sim}$  +55  $^{\circ}$ C; Storage temperature: -40  $^{\circ}$ C  $^{\sim}$  +85  $^{\circ}$ C; Humidity range: 0  $^{\sim}$  95% No condensation

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