AC Multi-Channel Energy Meter Datasheet

Product Description

AC Multi-Channel Energy Meter is independently designed to meet the needs of the increasingly high-precision power distribution management requirements of the data center. It is suitable for various all-round intelligent monitoring of terminal distribution equipment.

The device is exquisitely designed and can provide real-time monitoring of multiple electrical parameters, input and output switching values, and the status of lightning protection devices, as well as alarm threshold settings.

Product Features

- Small Size - Can be installed at the closest point and be integrated with existing space-constrained installations.
- Ultra-compact Design - Consists of control unit and current sensors (with RJ12 port, optional solid core or split core)
- Wide Measurement Range - Max. Supports 63A
- Multi Circuit- Support 30 single phase circuit or 10 three phase circuit AC measuring
- High Accuracy - Voltage & Current class 0.5, kWh class 1.0
- Multi Network Type - 1 phase 2 wires, 3 phase 4 wire visual Web with user-friendly interface

Product Dimensions

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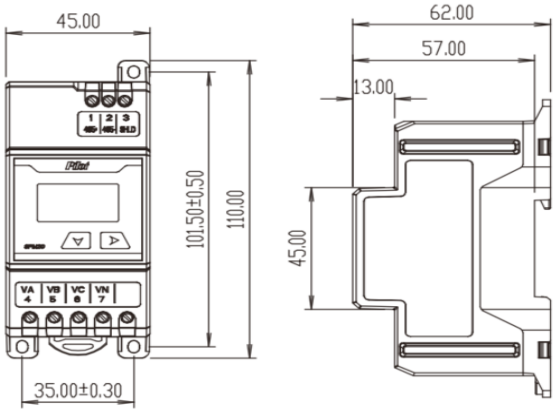
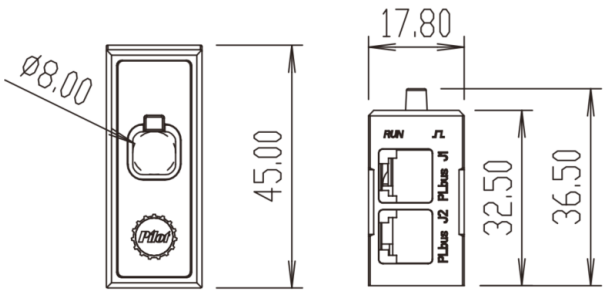
Unit: mm

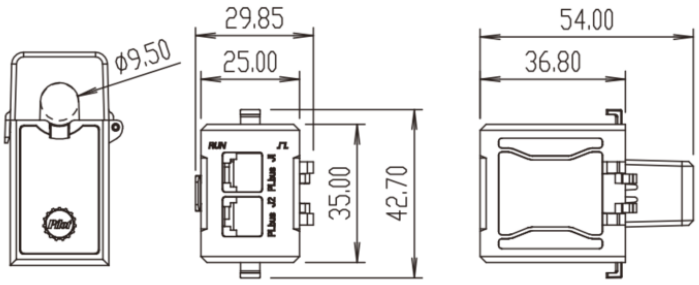
Main Module



Solid Core Sensor



Split Core Sensor



Specifications

Main Module		
Connection Mode	1 phase 2 wires, 3 phase 4 wires	
Power Supply	Self – supply, by A phase	
Voltage Input	1 phase 2 wires	220V Range: 40% - 150%
	3 phase 4 wires	3 x 220 / 380 V Range: 40% - 150%

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Specifications

Main Module		
Frequency	45 - 65HZ	
Power Loss	Powe Supply Circuit: ≤ 10W	
Communication	RS485 Serial, support Modbus – RTU Baudrate: 4800, 9200, 19200bps Address: 1~247	
Solid Core Sensor		
Connection Mode	Bus connection (2 x RJ12 Port)	
Rated Current Input	5(63) A	
Installation	Solid core	
Open hole	ϕ8 mm	
Sampling Rate	28k Hz	
Split Core Sensor		
Connection Mode	Bus connection (2 x RJ12 Port)	
Rated Current Input	10(50) A	
Installation	Split core	
Open hole	Φ9.5 mm	
Sampling Rate	28k Hz	
Common Parameters		
Parameter	**Accuracy**	**Measuring Range**
Voltage	0.5%	40% ~ 120%
Power factor	1.0%	-1~1

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Specifications

Common Parameters			
Parameter		**Accuracy**	**Measuring Range**
Current	**Solid Core Sensor (C)**	0.5%	0-63A, 1%~120%
	Split Core Sensor (0)	1.0%	0-50A, 1%~120%
Active power		1.0%	Single phase: 0~ 14kW/var/VATotal: 0~+42kW/var/VA
Reactive power		2.0%	
Apparent power		2.0%	
Active Energy	**Solid Core Sensor (C)**	1.0%	0 - 99,999,999.9 kWh
	Split Core Sensor (0)	2.0%	0 - 99,999,999.9 kWh
Reactive energy		2.0%	0-99,999,999.9 kVarh
Frequency		0.01	45 ~ 65Hz
Power frequency withstand voltage		2000VAC	
Insulation resistance		≥ 100MO	
Impulse withstand voltage		6kV (peak)	
IP index		IP52 (frontpanel)	
Environment		Normal Operating Temperature: -20 °C ~+55°C Operating Temperature: -20°C ~+50°C Storage Temperature: -30°C ~+80°C Humidity: <95% non-condensing	

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