Three phase power sensor, CT

3-phase power-sensor, current transformer



Model number:		PM3-E-D-CT	
Connect to:		MC-230	
		RS485 power sensor bus A - B	
Mounting:		DIN rail, 1M, 18 mm	
Dimensions:		65 × 72 × 94,5 mm	
Used for measuring power and energy of			
1	single/three-phase energy sources		
1	single/three-phase energy consumers		

Applications

• Digital multi-function power sensor for single/three phase networks

Features

- DIN rail mounting with 3x 50A (or 1x 50A) current transformer
- Line voltage and THD% (total harmonic distortion) of all phases
- Line Frequency
- Currents, Current demands and current THD% of all phases
- Power, maximum power demand and power factor
- Active energy imported and exported
- Reactive energy imported and exported

General description

The unit measures and displays the characteristics of three phase four wires(3p4w) supplies, including voltage, frequency, current, power, active and reactive energy, imported or exported. Energy is measured in terms of kWh, kVArh. Maximum demand current can be measured over preset periods of up to 60minutes. In order to measure energy, the unit requires voltage and current inputs in addition to the supply required to power the product. The requisite current input(s) are obtained via current transformers (CT). This power sensor can be configured to work with a wide range of CTs with 0.33V

output, giving the unit a wide range of operation. Built-in interfaces provide pulse and RS485 Modbus RTU outputs. Configuration is password protected. This power sensor can be powered from a separate auxiliary (AC or DC) supply. Alternatively, it can be powered from the monitored supply, where appropriate.

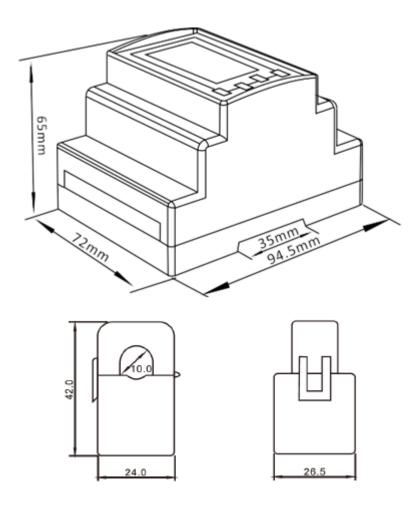
Technical specifications

Storage Humidity ≤ 95% Operating Temperature -25°C - +50°C Storage Temperature -40°C - +70°C Mounting DIN rail (DIN 43880) Sealing IP51 Indoor Auxiliary supply voltage Nominal ± 1% Auxiliary supply frequency Nominal ± 1% Frequency 50Hz or 60Hz(±2%) Power Consumption ≤ 10W Accuracy Voltage, Current 0.5% Frequency 0.2% of Mid-Frequency Power Factor 1% of Unity (0.01) Active Power, Apparent Power 2 1% of Range Maximum Reactive Power 2 1% of Range Maximum Reactive Energy (Wah) 1 18 of Range Maximum Active Energy (Wh) 2 108 of Range Maximum Active Energy (Wh) 3 18 18 18 18 18 18 18 18 18 18 18 18 18	Technical Data				
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Reactive Power	Active Power, Apparent Power	± 1% of Range Maximum			
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Baud Rate 1200/2400/4800/9600bps	Bus Type	RS485 (Semi-Duplex)			
	Protocol	Modbus RTU			
Address Range 1-247	Baud Rate	1200/2400/4800/9600bps			
	Address Range	1-247			

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Max. Bus Loading	64pcs
Communication Distance	1000 Meters
Parity	EVEN/ODD/NONE
Data Bit	8
Stop Bit	1

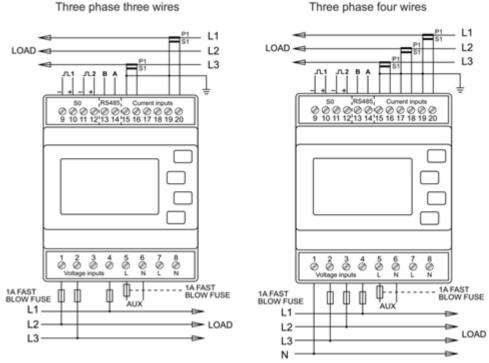
Dimensions

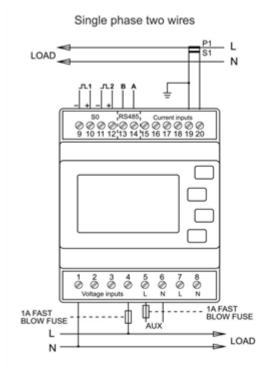


Installation

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Three phase four wires





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