

## PM3-E-D-CT

#### 3-phase power-sensor, current transformer



Model number:		PM3-E-D-CT	
Connect to:		RS485 power sensor bus A - B	
Mounting:		DIN rail	
Used for measuring power and energy of			
✓	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 current transformers (3-ph 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

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#### **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.

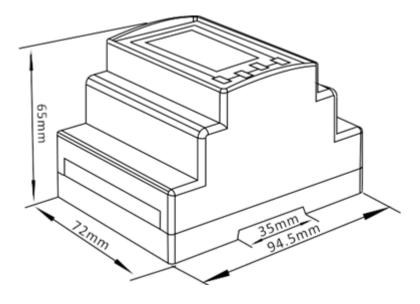
### **Technical specifications**

Technical Data	
Operating Humidity	≤ 75%
Storage Humidity	≤ 95%
Operating Temperature	-25°C - +50°C
Storage Temperature	-40°C - +70°C
Mounting	DIN rail (DIN 43880
Sealing	IP51 Indoo
Auxiliary supply voltage	Nominal ± 1%
Auxiliary supply frequency	Nominal ± 1%
Frequency	50Hz or 60Hz(±2%
Power Consumption	≤ 10V
Accuracy	
Voltage, Current	0.5%
Frequency	0.2% of Mid-Frequence
Power Factor	1% of Unity (0.01
Active Power, Apparent Power	± 1% of Range Maximun
Reactive Power	± 1% of Range Maximun
Reactive Energy (Varh)	± 1% of Range Maximur
Active Energy (Wh)	Class 1 IEC 62053-2
Current transformer	
Frequency	50-60 H
Rated current	50 /
Accuracy	from 20% to 120% of rated curren
Phase angle	less than 2 degrees at 50% of rated curren
Insulation voltage	600 VA
Maximum primary voltage	5000 VAC (insulated conductor
Dielectric strength	2.5 kV/1mA/1mi
Operating temperature	-15 to 60°0
Operating humidity	< 85 %
Case material	PC/UL94-V

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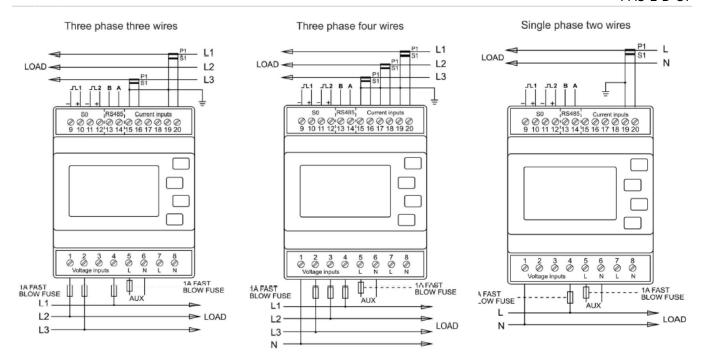
Bobin	PBT
Core	Permalloy
Internal structure	Ероху
Leads	UL 1015, Twisted pair, 22 AWG
Modbus	
Bus Type	RS485 (Semi-Duplex)
Protocol	Modbus RTU
Baud Rate	1200/2400/4800/9600bps
Address Range	1-247
Max. Bus Loading	64pcs
Communication Distance	1000 Meters
Parity	EVEN/ODD/NONE
Data Bit	8
Stop Bit	1

# **Dimensions**



# **Terminals**

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