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Three phase power sensor

3-phase power-sensor



Model number:		PM3-E-D	
Connect to:		MC-230	
		RS485 power sensor bus A - B	
Mounting:		DIN rail, 1M, 18 mm	
Dimensions:		66 × 72 × 100 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
- Three Phase 100A Direct Fed
- Accuracy Class 0.5 (Active Energy)
- Bi-directional Measurement for kW and kWh
- Configurable Pulsed output (Import/ Export/Nett kWh)
- Line Frequency
- Power, maximum power demand and power factor
- Active energy imported and exported
- Reactive energy imported and exported
- Supported Modbus (SDM630Modbus)

General description

SDM630 series measures and displays the characteristics of 1p2w, 3p3w and 3p4w supplies, including voltage, frequency, current, power, active and reactive energy, imported or exported, harmonic etc. Bi-directional measurement makes it an ideal choice for Solar PV measurement. The units support

Max. 100A direct connection, saving the cost and avoiding the trouble to connect external CTs. Two pulse outputs and 1 communication port (Mbus/Modbus) are provided for remote monitoring. The unit has been approved to meet the requirements of EU Directive 2014/32/EU.

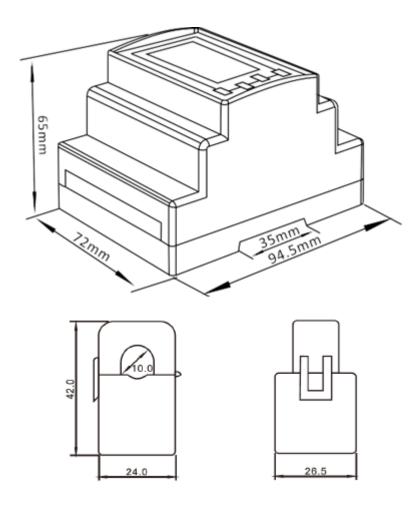
Technical specifications

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 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	± 1% of Range Maximum			
Reactive Power	± 1% of Range Maximum			
Reactive Energy (Varh)	± 1% of Range Maximum			
Active Energy (Wh)	Class 1 IEC 62053-21			
Current transformer				
Frequency	50-60 Hz			
Rated current	50 A			
Accuracy	from 20% to 120% of rated current			
Phase angle	less than 2 degrees at 50% of rated current			
Insulation voltage	600 VAC			
Maximum primary voltage	5000 VAC (insulated conductor)			
Dielectric strength	2.5 kV/1mA/1min			
Operating temperature	-15 to 60°C			
Operating humidity	< 85 %			
Case material	PC/UL94-V0			
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			

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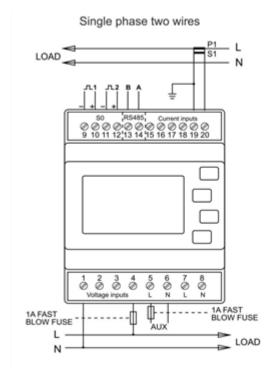
Communication Distance	1000 Meters
Parity	EVEN/ODD/NONE
Data Bit	8
Stop Bit	1

Dimensions



Installation

Three phase three wires Three phase four wires L1 L2 So (RS485), Current inputs So (RS485), Current i



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