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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.

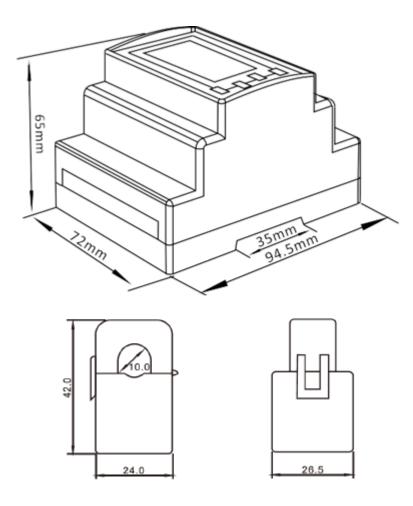
### **Technical specifications**

Operating Humidity       ≤ 90%         Storage Humidity       ≤ 95%         Operating Temperature       -25°C - +50°C         Storage Temperature       -40°C - +70°C         Mounting       DIN rail (DIN 43880)         Sealing       IP51 Indoor         Frequency       50Hz or 60Hz         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 Energy (Warh)       ± 1% of Range Maximum         Active Energy (Wh)       Class 1 IEC 62053-21         Current transformer       Frequency         Frequency       50-60 Hz         Racd 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 humidity       < 85 %         Case material       PC/UL94-V0         Bobin       PB	Technical Data	
Storage Humidity  Operating Temperature  Storage Temperature  Control of Range Maximum  Reactive Power  Frequency  Frequency  Frequency  Power Energy (Varh)  Active Energy (Wh)  Class 1 IEC 62053-21  Current  Frequency  Frequency  Frequency  Frequency  Frequency  Power Apparent Power  Reactive Energy (Warh)  Active Energy (Warh)  Active Energy (Warh)  Class 1 IEC 62053-21  Current  Frequency	Operating Humidity	≤ 90%
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Communication Distance 1000 Meters	Address Range	1-247
	Max. Bus Loading	64pcs
Parity EVEN/ODD/NONE	Communication Distance	1000 Meters
	Parity	EVEN/ODD/NONE

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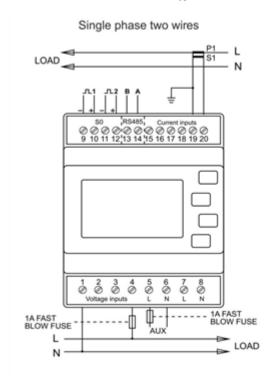
Data Bit	8
Stop Bit	1

## **Dimensions**



## Installation

# Three phase three wires Three phase four wires Three



hiq\_pm3-e-d-ct\_user\_manual\_v1.pdf hiq\_pm3-e-d-ct\_protocol\_v1.6.pdf

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