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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		
<b>✓</b>	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

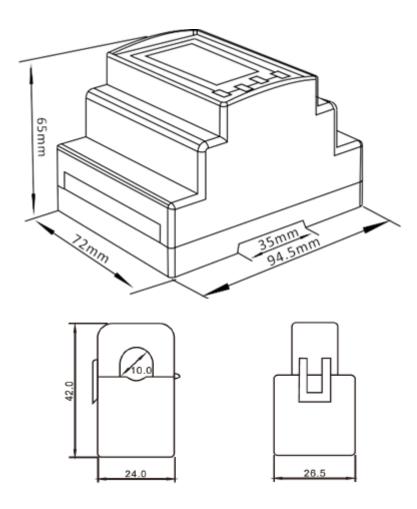
Max. 100A direct connection, saving the cost and avoiding the trouble to connect external CTs. Two pulse outputs and 1 communication port (Mbus/Modbus) are provided for remote monitoring. The unit has been approved to meet the requirements of EU Directive 2014/32/EU.

## **Technical specifications**

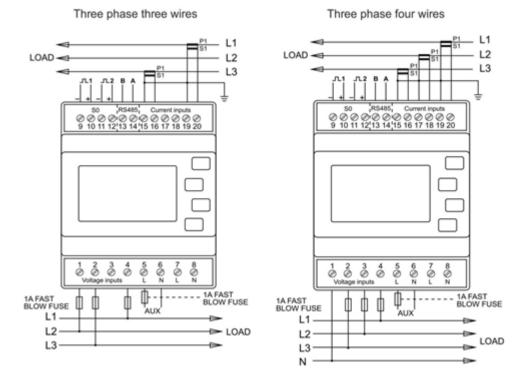
Operating Humidity $\leq 75$ Storage Humidity $\leq 95$ Operating Temperature $-25^{\circ}\text{C} - +50^{\circ}$ Storage Temperature $-40^{\circ}\text{C} - +70^{\circ}$				
Operating Temperature -25°C - +50°				
Operating Temperature -25°C - +50°				
Storage Temperature -40°C - +70°				
Mounting DIN rail (DIN 4388				
Sealing IP51 Indo				
Auxiliary supply voltage Nominal ± 1				
Auxiliary supply frequency Nominal ± 1				
Frequency 50Hz or 60Hz(±2%				
Power Consumption ≤ 10				
Accuracy				
Voltage, Current 0.5				
Frequency 0.2% of Mid-Frequence				
Power Factor 1% of Unity (0.0)				
Active Power, Apparent Power ± 1% of Range Maximu				
Reactive Power ± 1% of Range Maximu				
Reactive Energy (Varh) ± 1% of Range Maximu				
Active Energy (Wh) Class 1 IEC 62053-2				
Current transformer				
Frequency 50-60 H				
Rated current 50				
Accuracy from 20% to 120% of rated curre				
Phase angle less than 2 degrees at 50% of rated curre				
Insulation voltage 600 VA				
Maximum primary voltage 5000 VAC (insulated conducto				
Dielectric strength 2.5 kV/1mA/1m				
Operating temperature -15 to 60°				
Operating humidity < 85				
Case material PC/UL94-V				
Bobin				
Core Permallo				
Internal structure Epox				
Leads UL 1015, Twisted pair, 22 AW				
Modbus				
Bus Type RS485 (Semi-Duple				
Protocol Modbus RT				
Baud Rate 1200/2400/4800/9600bp				
Address Range 1-24				
Max. Bus Loading 64pc				

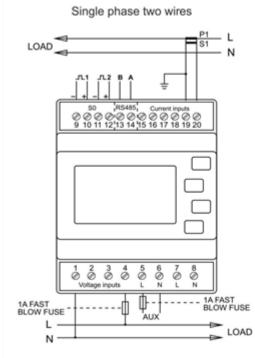
Communication Distance	1000 Meters
Parity	EVEN/ODD/NONE
Data Bit	8
Stop Bit	1

# **Dimensions**



# Installation





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

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