

# Three phase power sensor

## 3-phase power-sensor



|   |  |
|---|--|
| Model number:                                 | <b>PM3-E-D</b>   |
| Connect to:                                   | <a href="#">MC-230</a><br>RS485 power sensor bus A - B |
| Mounting:                                     | DIN rail, 1M, 18 mm                                    |
| Dimensions:                                   | 66 × 72 × 100 mm                                       |
| <b>Used for measuring power and energy of</b> |  |
| ✓   | single/three-phase energy sources                      |
| ✓   | 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

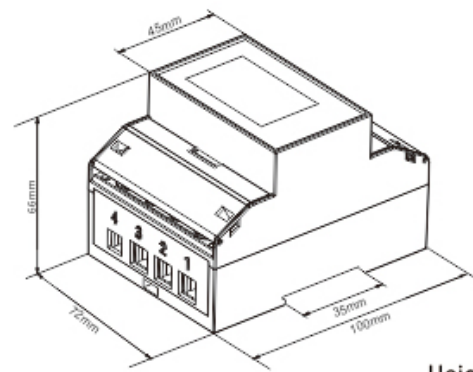
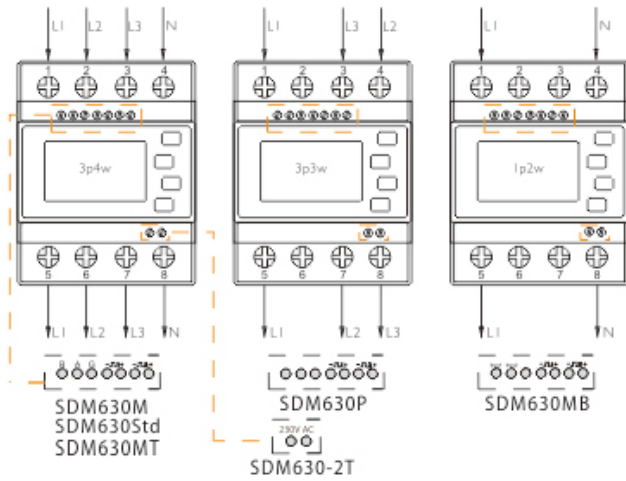
## General description

PM3-E-D 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 (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    | ≤ 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      | 0.2% of range maximum |
| Frequency             | 0.1% of Mid-Frequency |
| Power Factor          | 1% of Unity (0.01)    |
| Current transformer   |                       |
| Frequency             | 50-60 Hz              |
| Max current           | 100 A                 |
| Modbus                |                       |
| Transmission Mode     | RS485 Half-Duplex     |
| Protocol              | Modbus RTU            |
| Baud Rate             | 2400bps - 38400bps    |
| Address Range         | 1-247                 |
| Parity                | EVEN/ODD/NONE         |
| Data Bit              | 8                     |
| Stop Bit              | 1 or 2                |

## Installation & Dimensions



Height 100mm  
Width 72mm  
Depth 66mm

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