Single phase power-sensor

Single phase power-sensor



Model number:	PM1-E-D	
	MC-230	
Connect to:	RS485 power sensor bus A - B	
Mounting:	DIN rail, 1M, 18 mm	
Dimensions:	18 × 62 × 119 mm	
Used for measuring power and energy of		
✓ single-	single-phase energy sources	
✓ single-	single-phase energy consumers	

Applications

• Digital multi-function power-sensor for single phase networks

Features

- DIN rail mounting with direct connection up to 45A
- Compact design in a single module 18mm wide
- Seal-able cover(phase and neutral terminals)

General description

The PM1-E-D series is an advanced single phase energy monitoring solution with built-in configuration push button and LCD data displaying, particularly indicated for active energy and other parameters metering and for cost allocation. Housing for DIN-rail mounting,IP51 protection degree, direct connection up to max 45A.

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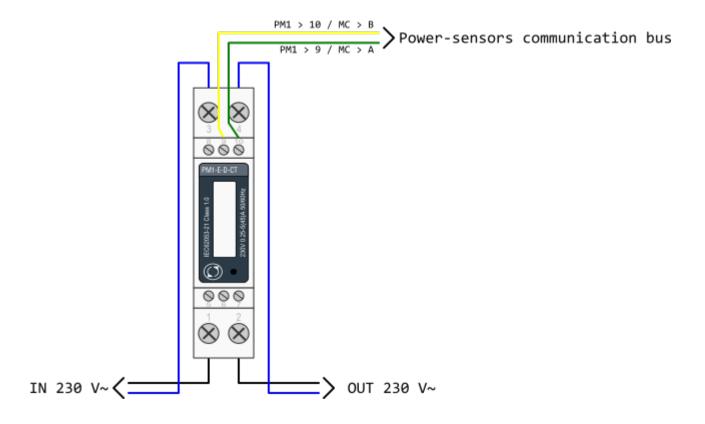
Technical specifications

Energy Measurements		
Imported/Exported active energy	0 to 99999.99 kWh	
Imported/Exported reactive energy		
Total active energy	0 to 99999.99 kWh	
Total reactive energy	0 to 99999.99 kVArh	
Measured Inputs	(91 - 11) 176 - 976 (
Nominal Voltage Input	(Ph+N) 176 to 276V	
Max Continuous Voltage	120% of nominal	
Nominal Input Current	5(45)A	
Max Continuous Current	120% of nominal	
Frequency	50Hz (±10%)	
Accuracy		
Voltage	0.5% of range maximum	
Current	0·5% of nominal	
Frequency	0·2% of mid-frequency	
Power factor	1% of unity (0.01)	
Active power (W)	±1% of range maximum	
Reactive power (VAr)	±1% of range maximum	
Apparent power (VA)	±1% of range maximum	
Active energy (Wh)	Class 1 IEC 62053-21	
Reactive energy (VARh)	±1% of range maximum	
Modbus (RS485 Output for Modbus RTU & Pulsed Output)		
Baud rate	1200, 2400, 4800, 9600.	
Parity	none / odd / even	
Stop bits	1 or 2	
RS485 network address	1 to 247	
Reference Conditions of Influence Quantities		
Ambient temperature	23°C ±1°C	
Input waveform	50 or 60Hz ±2%	
Input waveform	Sinusoidal (distortion factor < 0.005)	
Auxiliary supply voltage	Nominal ±1%	
Auxiliary supply frequency	Nominal ±1%	
Auxiliary supply waveform (if AC)	Sinusoidal (distortion factor < 0.05)	
Magnetic field of external origin	Terrestrial flux	
Environment		
Operating temperature	-25°C to +55°C	
Storage temperature	-40°C to +70°C	
Relative humidity	0 to 95%, non-condensing	
Altitude	Up to 3000m	
Warm up time	1 minute	
Vibration	10Hz to 50Hz, IEC 60068-2-6, 2g	
Shock	30g in 3 planes	
Mechanics		
	19mm v 00mm (WvH) nor DIN 42000	
DIN rail dimensions	18mm x 90mm (WxH) per DIN 43880	

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Mounting DIN rail (DIN 43880)

PM1-E-D Wiring



hiq_pm1-e-d_user_manual_2020.pdf hiq_pm1-e-d-modbus_protocol_v2.2.pdf

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