Single phase power-sensor

Single phase power-sensor



Model number:		PM1-E-D	
Connect to:		MC-230	
		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-phase energy sources		
1	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.

Technical specifications

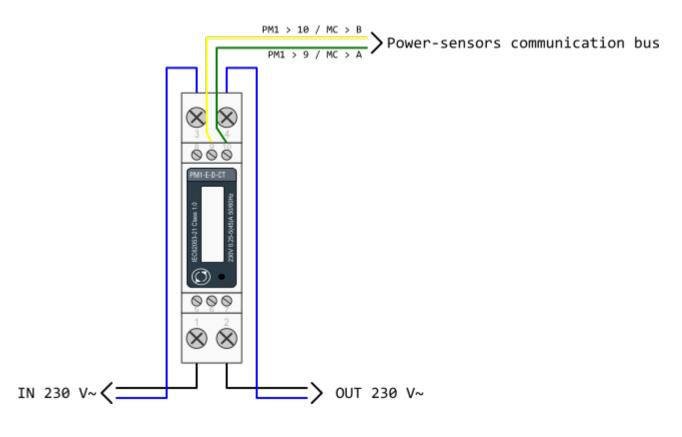
Imported/Exported reactive energy0 to 99999.99 kVArhTotal active energy0 to 99999.99 kVArhMeasured Inputs0 to 99999.99 kVArhNominal Voltage Input(Ph+N) 176 to 276VMax Continuous Voltage120% of nominalNominal Input Current5(45)AMax Continuous Current120% of nominalFrequency50Hz (±10%)Accuracy0.5% of range maximumCurrent0.5% of nominalFrequency0.2% of mid-frequencyPower factor1% of unity (0.01)Active power (W)±1% of range maximumActive power (VAr)±1% of range maximumActive energy (WARh)±1% of range maximumActive energy (WARh)±1% of range maximumMobus (RS485 Output for Modbus RTU & Pulsed Output)Baud rate1200, 2400, 4800, 9600Paritynone / odd / everStop bits1 or 27Reference Conditions of Influence QuantitiesAmbient temperature23°C ±1°CInput waveformSinusoidal (distortion factor < 0.055)Auxiliary supply voltageNominal ±1%Auxiliary supply voltageNominal ±1%Auxiliary supply waveform (if AC)Sinusoidal (distortion factor < 0.055)Magnetic field of external originTerrestrial fluxEnvironment-25°C to +55°COperating temperature-25°C to +55°CStorage temperature-40°C to +70°CRelative humidity0 to 95%, non-condensingAltitudeUp to 3000mWarm up time1 minute	Energy Measurements				
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Magnetic field of external originTerrestrial fluxEnvironment-25°C to +55°COperating temperature-25°C to +55°CStorage temperature-40°C to +70°CRelative humidity0 to 95%, non-condensingAltitudeUp to 3000mWarm up time1 minuteVibration10Hz to 50Hz, IEC 60068-2-6, 2gShock30g in 3 planesMechanics		Sinusoidal (distortion factor < 0.05)			
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Shock 30g in 3 planes Mechanics					
Mechanics		-			
ווטן rail dimensions 18mm x 90mm (WxH) per DIN 43880	DIN rail dimensions	18mm x 90mm (WxH) per DIN 43880			

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DIN rail (DIN 43880)

Mounting

PM1-E-D Wiring



sdm120_series_datasheet.pdf sdm120_protocol.pdf

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