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.

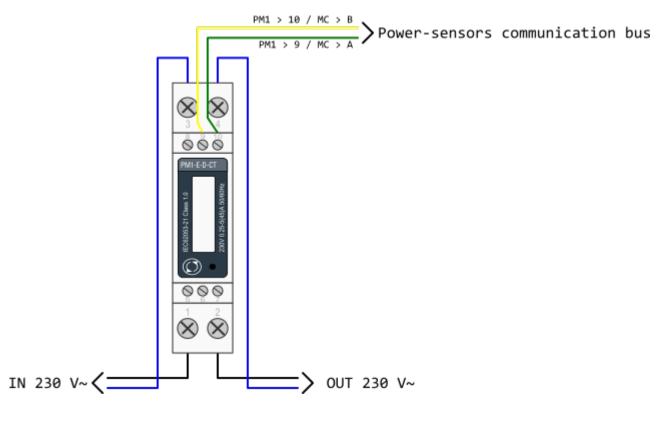
Technical specifications

Energy Measurements	
Imported/Exported active energy	0 to 99999.99 kWh
Imported/Exported reactive energy	0 to 99999.99 kVArh
Total active energy	0 to 99999.99 kWh
Total reactive energy	0 to 99999.99 kVArh
Measured Inputs	1
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	I
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 Mod	-
Baud rate	1200, 2400, 4800, 9600.
Parity	none / odd / even
Stop bits	1 or 2
RS485 network address	1 to 247
Reference Conditions of Influen	ce 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	
ricenanies	

http://wiki.hiq-home.com/

Mounting DIN rail (DIN 43880)

PM1-E-D Wiring



sdm120_series_datasheet.pdf sdm120_protocol.pdf

From: http://wiki.hiq-home.com/ -

Permanent link: http://wiki.hiq-home.com/doku.php?id=en:hiq_hw:pm1-e-d&rev=1563956107



Last update: 2019/07/24 08:15