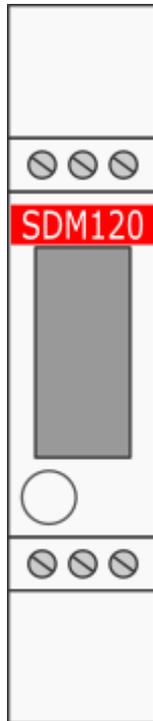


Single phase power-meter

Single phase power-meter



Model number:	PM1-E-D
Mounting:	DIN rail, 1M, 18 mm
Dimensions:	18 × 62 × 119 mm
Used for measuring power and energy of	
✓	single-phase energy sources
✓	single-phase energy consumers

Applications

- Digital multi-function energy meter 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

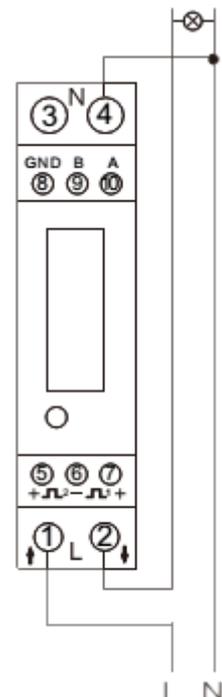
The PM1-E-D series is an advanced single phase energy monitoring solution with built-in configuration push button and LCD data displaying, particularly indicated for active energy and other parameters metering and for cost allocation. Housing for DIN-rail mounting, IP51 protection degree, direct connection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

Technical specifications

Nominal voltage(Un)	230 VAC
Operational voltage	176-276 V
Insulation capabilities	
- AC voltage withstand	4 KV for 1 minute
- Impulse voltage withstand	6 kV-1.2 μS
Basic current (Ib)	5 A
Maximum rated current (Imax)	45 A
Operational current range	0.4% Ib-Imax
Over current withstand	20 Imax for 0.01 s
Operational frequency range	50 or 60 Hz
Internal power consumption	≤ 2 W/10 VA
Communication type	RS485(half-duplex)
Communication protocol	Modbus RTU
Pulse output 1	configurable
Pulse output 2	1000 imp/kWh
Max reading	99999.9 kWh

SDM120 Terminals

PM1-E-D		Power source	
Phase IN	L ↑ 1	L	
Neutral	N 4	N	
PM1-E-D		Power consumer	
Phase OUT	L ↓ 2	L	
PM1-E-D	CAD-232-A2-IQ	BR-WN-W	
RS485	8	C	GND
	9	B	Tx/T-
	10	A	Rx/T+



PM1-E-D user manual

PM1-E-D Modbus protocol

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