

# Power Meter Set

## Single phase direct connection power meter set



Model number:	<b>PM-1-IQ</b>
Mounting:	DIN rail, 1+2M, 18+36 mm
Dimensions:	18+36 × 62 × 119 mm

## 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)
- Measuring kWh, V, A, P, F, PF, etc

## General description

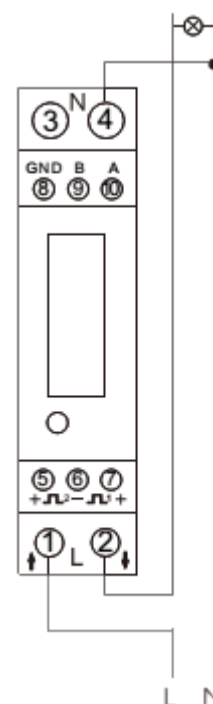
The PM-1-IQ series is an advanced single phase energy monitoring solution with built-in configuration push button and LCD data displaying, particularly indicated for active energy and other parameters metering and for cost allocation. Housing for DIN-rail mounting, IP51 protection degree, direct connection 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(semi-duplex)
Communication protocol	Modbus RTU
Pulse output 1	configurable
Pulse output 2	1000 imp/kWh
Max reading	99999.9 kWh

## SDM120 Terminals

Neutral	N	3	Loads neutral	Live in	1	L ↑	Loads live
		4		Live out	2	L ↓	Loads power supply
	GND	8	RS485	Pulse output 1	5	+ ⌋ 2	NC
CAD-232-A2-IQ B	B	9		Pulse output common	6	- ⌋	
CAD-232-A2-IQ A	A	10		Pulse output 1	7	+ ⌋ 1	



SDM120C user manual

SDM 120C Modbus protocol

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Last update: **2019/07/24 06:39**

