

# Data Sheet

2018 v1.0

## SDM72D-M DIN Rail Power Meter

- MID B&D Approved
- Class 1 Accuracy
- Dual Pulsed Output
- Straight-Through Connection
- 4 Module Dinrail Mounted (35mm)



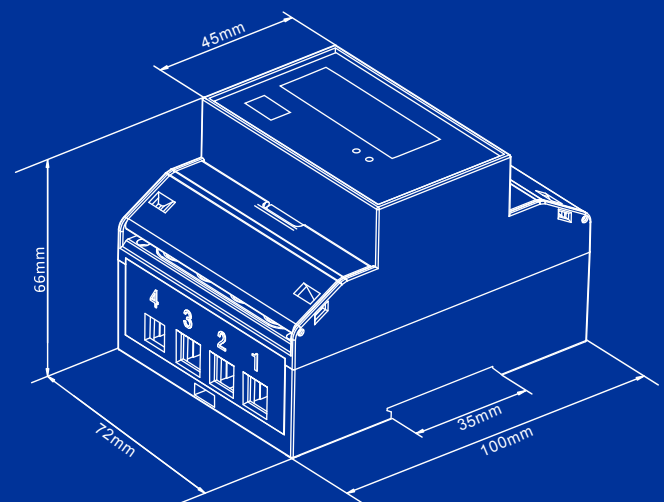
## SDM72D Three Phase Power Meter

The SDM72D Digital Power Meter works directly connected to a maximum load 100A AC circuit eradicating the need for current transformers.

This meter has been MID B&D Certified by SGS UK, proving both it's accuracy and quality. This certification allows this model to be used for any sub-billing applications.

The SDM72D measures and displays Total Active Energy of a three phase circuit. The unit has a built in pulsed output as well for remote monitoring.

## Dimensions



## RS485 Output for Modbus RTU

For Modbus RTU, the following RS485 communication parameters can be configured from the set-up menu:

Baud Rate: 2400, 4800, 9600, 19200, 38400

Parity: None (default) / Odd / Even

Stop Bits: 1 or 2

RS485 Network Address: 3 Digit Number - 001 to 247

Modbus<sup>®</sup> Word order Hi/Lo byte order is set automatically to normal or reverse. It cannot be configured from the set-up menu.

## SDM72D Digital Power Meter - Three Phase

### Measured Parameters

The SDM72D monitors and displays Total Active Energy (kWh) of a three phase four wire (3p4w) system.

### Technical Data

Certification	MID B&D Approved
Operating Humidity	≤ 75%
Storage Humidity	≤ 95%
Operating Temperature	-20°C - +50°C
Storage Temperature	-30°C - +70°C
International Standard	IEC 62053-21
Accuracy Class	1
Mounting	DIN rail (DIN 43880)
Sealing	IP51 Indoor
Nominal Voltage Input	(Ph+N) 100 to 289V (Ph+Ph) 173 to 500V
Max Continuous Voltage	120% of nominal
AC Voltage Withstand	4KV for 1 minute
Impulse Voltage Withstand	6KV-1.2μS
Reference Input current	0.5A
Base Input Current (I <sub>b</sub> )	10A
Maximum Input Current (I <sub>max</sub> )	100A AC
Max Continuous Current	120% of nominal
Operational Current Range	0.4% I <sub>b</sub> -I <sub>max</sub>
Over current withstand	20I <sub>max</sub> for 0.01s
Nominal Input Current Burden	0.5VA
Frequency	50Hz(±10%)
Power Consumption	≤ 2W/10VA/phase
Pulsed Output	1000imp/kWh

### Wiring Diagram

