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Data Sheet

SDM72D DIN Rail Power Meter

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



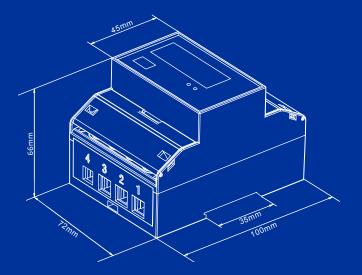
SDM72D Three Phase Power Meter

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



Safety Instructions

The following safety instructions apply to all versions of the SDM72D range of power meters:

Information for your own safety

This manual does not contain all of the safety measures for operation of the equipment (module, device) because special operating conditions, and local code requirements or regulations may necessitate further measures. However, it does contain information which must be read for your personal safety and to avoid material damages. This information is highlighted by a warning triangle and is represented as follows, depending on the degree of potential danger.

Qualified personnel

Operation of the equipment described in this manual may only be performed by qualified personnel. Qualified personnel means a person who has been authorised to commission, start up, ground and label devices, systems and circuits according to Safety and Regulatory standards

Use for the intended purpose The equipment must only be used for the application specified in the datasheet and the user manual.

Proper handling
The prerequisites for areliable operation of the product are proper transport, storage, installation and assembly, as well as proper operation and maintenance. When operating electrical equipment, certain parts of the equipment automatically carry dangerous voltages. Improper handling can therefore result in serious injuries or material damage. Use only insulating tools. Do not connect while circuit is live (hot). Place the meter only in dry surroundings. Do not mount the meter in an explosive area or expose the meter to dust, mildew and insects. Make sure the used wires are suitable for the maximum current of this meter. Make sure the AC wires are connected correctly before activating the current/voltage to the meter. Do not touch the meter $connecting\ clamps\ directly\ with\ your\ bare\ hands,\ with\ metal,\ blank\ wire\ or\ other\ material\ as\ you\ may\ get\ an\ electrical\ shock.$

Make sure the protection cover is placed after installation. Installation, maintenance and reparation should only be done by qualified personnel. Never break the seals and open the front cover as this might influence the functionality of the meter, and will avoid any warranty. Do not drop, or allow physical impact to the meter as there are high precision components inside that may

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 (Ib) | 10A |
| Maximum Input Current (Imax) | 100A AC |
| Max Continuous Current | 120% of nominal |
| Operational Current Range | 0.4% lb-lmax |
| Over current withstand | 20lmax for 0.01s |
| Nominal Input Current Burden | 0.5VA |
| Frequency | 50Hz(±10%) |
| Power Consumption | ≤ 2W/10VA/phase |
| Pulsed Output | 1000imp/kWh |

Wiring Diagram

