Smappee
Infinity MID meter

The Smappee MID meter is a calibrated polyphase multifunction kWh meter. It measures and displays the characteristics of single or 3-phase loads with a range of up to 100 A. Its measurements can be used for official energy registrations and billing purposes. The Smappee MID meter is part of the Smappee ecosystem* and communicates via Modbus RTU (RS-485) with the Smappee Connect. This way you can also consult the data in the Smappee App and Dashboard or any other system via API in addition to reading the data directly from the display of the meter. The meter was certified in the UK according to EU Directive 2014/32/EU and has MID Certificate number 0120 / SGS0462.

- Add billable data to the Smappee Infinity ecosystem.
- Three Phase 100A direct fed.
- MID B+D certified.
- Accuracy class 0.5 (Active Energy).
- Bi-directional measurements for kW and kWh.

DIN rail Dimensions 72 × 100 mm

Mounting DIN Schiene (DIN 43880)

Weight 340 g

Operating temperature -25 °C to 55 °C

Storage temperature 40 °C to 70 °C

Reference temperature 23°C ±2°C

Relative humidity
0 % - 95 %, non-condensing

Operating altitude 0 – 2,000 m

International standard
IEC 62053-21 / EN50470-1/3

Accuracy class Class 1 / Class B

IP Rating IP 51

Intended environment conditions
Pollution degree 2

Overvoltage conditions
overvoltage CAT III

Mechanical environment M1

Electromagnetic environment E2

Electrostatic discharges
8 kV contact/15 kV air gap

Electromagnetic HF fields
IEC 61000-4-3

Electrical fast transients 4 kV

Nominal voltage (Un)
3 × 230/400 V AC

Operational voltage
80 % ~ 120 % of Un

AC voltage withstand
4 KV for 1 minute

Impulse voltage withstand
6 KV - 1.2 µS

Basic current (Ib) 10 A

Maximum rated current (Imax) 100A

Operational current range
0.4 % Ib - Imax

Over current withstand
30 Imax for 0.01 s

Frequency 50/60 Hz

Power consumption per phase
≤ 2 W / 10 VA

Display LCD

Modbus RTU (RS-485) interface

- Type: RS485 semi-duplex
- Connections: 2-wire, maximum
- distance 1,000 m
- Address range: 1 - 247
- Max. bus loading: 8pcs
- Protocol: Modbus RTU
- Parity: EVEN/ODD/NONE
- Data bit: 8
- Stop bit: 1
- Baud-rate: 38.400 bit/sec

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