

# Smappee 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 (RS485) 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 is certified according to 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 B.
- Bi-directional measurements for kW and kWh.

**DIN rail dimensions** 72 mm × 100 mm

**Mounting** DIN rail (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 – 2000 m

**International standard**

IEC 62053-21 / EN50470-1/3

**Accuracy class** Class 1 / Class B

**IP Rating** IP51

**Intended environment conditions**

Pollution degree 2

**Overvoltage conditions**

CAT III

**Mechanical environment** M1

**Electromagnetic environment** E2

**Electrostatic discharges**

8 kV contact / 1 5 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)**

100 A

**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 1000 m
- Address range: 1 - 247
- Maximum bus loading: 8 pcs
- Protocol: Modbus RTU
- Parity: EVEN/ODD/NONE
- Data bit: 8
- Stop bit: 1
- Baud-rate: 38.400 bit/s