

eCB1 MP+

The smart measuring point



eCB1 MP+ - smart measuring point

- Intended use:
 - To detect draw/feed in non-compatible PV systems.
 - as measuring point for load management applications
- installation in meter cabinets, distribution boards and at any current measuring point
- Fully integrated smart meter
- Interfaces: LAN
- local API interface
- Representation of the total power consumption per phase and overall
- Active line and energy measurement per phase in kW and real time
- Visualization via web interface
- Storage of consumption data on the device
- Top-hat rail mounting for row installation
- Direct measurement up to 63A
- Transformer measurement up to 1000A (transformer sold separately)

Technical data

Interfaces

LAN (10/100 Mbit)

Product standards

EN 61010, EN 50428, EN 60650

Voltage and current inputs

Rated voltage 230/400 VAC

Operating voltage 230 V $\pm 10\%$

Frequency 50 Hz $\pm 5\%$

Own consumption

Voltage path < 0.01 VA per phase

Current path < 2 VA per phase

Complete unit < 5 W

Start-up current < 25 mA

Current Nominal current 5A, limit current 63A

Mounting

Connection cross section: 10-25 mm² *

Torque for screw terminals: 2.0 Nm

* mechanical: from 1.5 - 25 mm²

Measurement accuracy

Accuracy class according to IEC 61557-12

Related to the measured value, energy manager

Voltage $\pm 0,5\%$

Current $\pm 0,5\%$

Apparent power $\pm 1,0\%$

Active power $\pm 1,0\%$

Reactive power $\pm 1,0\%$

Power factor $\pm 1,0\%$

Related to IEC 62053-22 or -23 (typical)

Active power class 1

Reactive energy class 1

When using external current transformers, the respective measuring accuracy must be taken into account.

Power factor $\pm 1,0\%$

Operating conditions

Ambient temperature -25 °C

Storage temperature -25 °C

Relative humidity Up to 75% annual average

Up to 95% on up to 30 days/year

Mechanical data

Material housing glass fiber amplifier, polymad

Glow wire test According to IEC 695-2-1

Protection class II

Protection class IP2X

Weight 0.3 kg

Size 88 x 70 x 65 mm

EMW

ESD (IEC 61000-4-2)

4 kV contact discharge, 8 kV air discharge

HF irradiation (IEC 61000-4-3) 3V_m

Burst (IEC 61000-4-4)

Mains: +- 4 kV, Ethernet: +- 2 kV

Surge (IEC 61000-4-5)

Phase to phase: 1 kV, phase to ground: 2kV, Ethernet: +- 2 kV

Conducted interference (IEC 61000-4-6)

150 kHz-80 MHz, 3V (rms)

RF emission (EN 55022)

Class B