



Smartmeter eCB1-LR

Metering, control
and visualization

The control center for your charging pole

- ✔ Placement in meter cabinets, distribution cabinets, charging stations and at every measuring point
- ✔ Fully integrated smartmeter
- ✔ Interfaces: LAN + RS-485
- ✔ Visualization of total current consumption
- ✔ Power and energy metering per phase in kW (real time)
- ✔ Visualization via webinterface
- ✔ Storage of consumption data on device
- ✔ Top hat rail mounting
- ✔ Direct measuring up to 63 A
- ✔ Converter measurement up to 1000 A





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Interface (standard)
LAN (10/100 Mbit)
RS-485

Product Standards
EN 61010, EN 50428, EN 60650

Voltage and current inputs
Rated voltage: 230/400 VAC
Operating voltage: 230 V ±10 %
Frequency: 50 Hz ±5 %

Power 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 5 A, current limit 63 A

Mounting
Connection cross-section: 10-25mm² *
Torque for screw terminals: 2.0 Nm
* mechanical: from 1.5 - 25 mm²

Measuring accuracy
Accuracy class according to IEC 61557-12
Referred to measured value, the energy manager
Voltage: ±0.5 %
Current: ±0.5 %
Apparent power: ±1.0 %
Real power: ±1.0 %
Reactive power: ±1.0 %
Power factor: ±1.0 %

With reference to IEC 62053-22 or -23 (typically)
Real energy: class 1
Reactive energy: class 1

When using external current transformers, their measuring accuracy must be taken into account.
Power factor: ±1.0 %

Operating conditions
Ambient temperature: -25° C ... +45° C
Storage temperature: -25° C ... +70° C
Relative humidity
up to 75 % annual average
up to 95 % on up to 30 days/year

Mechanical data
housing material: glass reinforced polyamide

hot wire test: according to IEC 695-2-1
Protection class: II
Protection type: IP2X
Weight: 0.3 kg
Size: 88 x 70 x 65 mm

EMC
ESD (IEC 61000-4-2)
4 kV contact discharge, 8 kV air discharge
RF-irradiation (IEC 61000-4-3) 3 Vm
Burst (IEC 61000-4-4)
Mains: ±4 kV, Ethernet: ±2 kV
Surge (IEC 61000-4-5)
Phase-Phase: 1 kV, Phase-earth: 2 kV, Ethernet: ±2 kV
conductive interference immunity (IEC 61000-4-6)
150 kHz-80 MHz, 3 V (rms value)
RF-transmission (EN 55022)
class B

Connection diagramm

