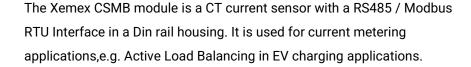


# **CSMB MODULE**

### **Product Overview**



It measures the current consumption of the household. Real time total current consumption is available to the charge point via the Modbus interface. With this information the charge point can calculate the current capacity which is available for charging a car.

Up to 3 CT transformers can be connected to the CSMB device. These CT transformers can be installed around the power lines without disturbing the installation.

The CSMB can be used for both, single phase or poly phaseinstallations.

The unit is powered via external DC power adapter.

User interface is covered by 3 LED's on the front side of the module:

- PWR: Power present
- CS: Current Level Indicator
- MB: Modbus request received



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## **Specifications**

#### **Physical Characteristics**

Housing: DIN 43880 / 1 unitDimensions: 90 x 18 x 65 mm

#### **Environmental conditions**

- Protection class II
- Operating temperature -25 °C +75 °C
- Storage temperature -40 °C +85 °C
- Relative humidity < 75 % year's average at 21 °C
- < 95 % less than 30 days/year, at 25 °C
- Pollution Degree 2
- Altitude < 2000m
- Application area Residential, Indoors in suitable meter cabinet

#### **Power Requirements**

- DC adapter 12 V, < 65mA

#### Modbus Interface

- Connector Screw terminal connector for A, B and Shield
- Bus termination 120 Ohm, switchable on/off
- Protocol modbus RTU over RS485
- Max cable length: 100 meter
- Cable location: indoor + outdoor

#### Metering Interface

- Connector Screw terminal connectors for max 3 Current Transformers
- Measuring principle Current measurement by Current transformer
- Current range 1A ... 80A
- CT ratio 2000
- Input impedance 20 Ohm
- Accuracy Typically <5 % at 23 °C
- Max Cable length 1 meter

#### Standards and certifications

- Safety: IEC 60950-1, IEC 62052-11
- EMC: IEC 61000-4-2, IEC 61000-4-3
- IEC 61000-4-4, IEC 61000-4-5
- IEC 61000-4-6, IEC 61000-4-11



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