

Product Sheet Versie 1.0 CSPI communication module

CSP1 CT Current Meter with P1 output

The CSP1 can be used for both, single phase or poly phase installations.



Product overview

The Xemex CSP1 module is a CT current meter with a DSMR4 P1 Interface in a Din rail housing used for Active Load Balancing in EV charging applications.

It measures the current consumption of the household. Real time total current consumption is available to the charge point via P1 DSMR4 formatted messages. 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 CSPI device. These CT transformers can be installed around the power lines without disturbing the installation. The CSPI can be used for both, single phase or poly phase installations.

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 Indicator
- P1: P1 msg request is active

The Xemex CSP1 module is ideal for P1 based Active Load Balancing applications in EV charging installations where no DSMR smart meter is available.

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Technology

Physical Characteristics

- Housing: DIN 43880 / 1 unit
- Weight:
- Dimensions: 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 5 V, < 50mA

P1 Interface

- RJ11 connector, DSMR4 specification
- Max cable length: 30 meter

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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