



- Test E-vehicles during the charging process
- Data communication between EV and EVSE via fibre optic
- Low emission
- Supports all major standards:  
CCS2, CHAdeMO, GB/T

## FIBRE OPTIC CONVERTER FOR CAR CHARGING STATIONS

Certifications for the growing e-mobility market require that electric vehicles (EVs) be tested while connected to charging stations (EVSEs) during the charging process.

The PONTIS EMC foCarCharger transmits the data signals via fibre optic connection. Thanks to its versatile design, it is compatible with most international charging standards and can be updated to new requirements.

The foCarCharger supports Pilot Signal (PWM), PLC and CAN communication, enabling compatibility with multiple standards like CCS, CHAdeMO and GB/T. Additionally it can read the relay contacts of CHAdeMO and other status signals. The communication standard can easily be changed using configuration switches on the foCarCharger.

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Both sides (EV and EVSE) are EMC shielded and suitable for use inside the EMC chamber.

The firmware of the foCarCharger can be easily updated via a dedicated PC tool to react to future changes in the protocols. As the EVSE needs to be separated from the EV, the power cables need to be separated from the data line. For this purpose, we offer a power connect box and corresponding charging cables.

## FEATURES:

- Shielded transmission for car charging stations
- Data and power are split up
- Data transmission via fibre optics
- For AC and DC charging
- Most international standards supported
- RF-immunity 200 V/m up to 18 GHz
- Continuous operation with external 12V/2A power supply possible

## ACCESSORIES:

### required:

- Fibre optic cables: variable lengths ST/FSMA-connector (PONTIS EMC)

### optional:

- Cable with appropriate connector for specific standard
- Power connect box (max. 230 A)

## TECHNICAL DATA

Data communication	Control Pilot Circuit (PWM) PLC (HomePlug Green) up to 10 Mbps CAN bus (ISO11898) up to 1Mbps
Data link	Glass fibre 50/125 µm, ST connector
Operating temperature/humidity	0 ° to +50 °C / 20 to 80 % RH
Housing	coated aluminium
Colour	light grey (RAL 7035) / petrol
External dimensions	210 x 185 x 80 mm (LxWxH)
Weight	1.4 kg
Immunity	200 V/m up to 18 GHz

## Standards Supported



EC 61851-1 AC and DC CCS1 and 2 (PLC)



SAE J1772 AC and DC CCS1



GBT-18487.1 AC and DC



CHAdeMO DC

Specifications are subject to change without notice!

**PONTIS**  
EMC PRODUCTS  
A BRAND OF AUDIOVO

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