**Product description**

The protocol converter XCP-Gateway pro is especially designed for the CSM EtherCAT® measurement module series and has been developed for measurement tasks with numerous measurement channels and high measurement data rates. XCP-Gateway pro allows the linking of CSM EtherCAT® measurement devices to the data protocol XCP-on-Ethernet, thus combining the advantages of data acquisition via EtherCAT® with the flexibility of the wide-spread standard XCP-on-Ethernet. In addition, temperature information from CSM HV Breakout Modules can be transferred via EtherCAT®.

XCP-Gateway pro features two CAN interfaces for connecting CSM CAN bus measurement modules, allowing the integration of their measurement data into the protocol XCP-on-Ethernet.

All measurement modules receive their power supply from the XCP-Gateway pro. The configuration of both EtherCAT® and CAN measurement modules is done in CSMconfig.

**Shipping content**

- XCP-Gateway pro
- Configuration software CSMconfig
- Documentation

**Key features**

- EtherCAT® to XCP-on-Ethernet converter
- EtherCAT®: time synchronization of all measurement signals better than 1 µs
- XCP-on-Ethernet: accuracy of measurement signal time stamps is 1 µs
- Suited for 25 resp. 100 ECAT measurement modules with measurement data rates up to 10 resp. 2 kHz
- Autonomous master for CSM EtherCAT® devices of the measurement module series
- 2 CAN interfaces for connecting CSM CAN bus measurement modules
- Simple configuration of XCP-Gateway pro and connected measurement modules via CSMconfig

**Accessories**

- See datasheets “ECAT Accessories” and “CAN Accessories”.

CSM GmbH
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Innovative Measurement and Data Technology
# Technical data

## Type designation
XCP-Gateway pro

## PC
- **Physical layer**: Ethernet 100Base-TX, 100 MBit/s
- **Protocol**: XCP on UDP/IP

## ECAT
- **Physical layer**: Ethernet 100Base-TX, 100 MBit/s
- **Protocol**: EtherCAT®

## CAN
- **CAN 2.0B (active), High Speed (ISO 11898-2:2016)**, 125 kbit/s to 1 Mbit/s
  - For connecting CAN-based CSM measurement modules

## Configuration
- Via CSMconfig, settings are stored in the device

## Power supply
- **Minimum**: 6 V DC (-10 %)
- **Maximum**: 50 V DC (+10 %)
- **Power consumption**: typ. 2 W
- **LED Ethernet**: Link/Activity PC (green) / Link/Activity ECAT (green)
- **LED Status**: 2 multi-colored LEDs for DEV and ECAT
- **LED CAN/PWR**: interface activated (green)

## Housing
- **Material**: aluminium, silver anodized
- **Protection class**: IP67
- **Weight**: approx. 400 g
- **Dimensions (w × h × d)**: approx. 200 × 40 × 50 mm (Slide Case)

## Connectors
- **PC (Ethernet / power supply)**: LEMO 1B, 8-pole, code L
- **ECAT (EtherCAT® / power supply)**: LEMO 1B, 8-pole, code A
- **CAN/PWR**: LEMO 0B, 5-pole, code G
- **Sync**: LEMO 0B, 2-pole, code G (galvanically isolated)

## Operating and storage conditions
- **Operating temperature**: -40 °C to +85 °C
- **Relative humidity**: 5 % to 95 %
- **Pollution degree**: 3
- **Storage temperature**: -55 °C to +90 °C

## Conformity
![CE mark]

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