# foConverters Overview

PONTIS
EMC PRODUCTS

foCAN
foUSB
foLIN
foETHERNET
foCARCHARGER
BroadR-Reach Ethernet-10Base-T1/T2
foHDMI
foRS232/RS485
-1 V ... +1 V
-50 V ... +50 V
1 MHz
foANALOG

## foConverters

In complex testing environments it is often needed that electrical signals have to be transmitted into the chamber or out of the chamber to the test equipment.

For that purpose we offer a variety of different interfaces that convert electrical signals into optical signals and back. Such the signal can be transmitted via fibre optics and is immune against electrical fields.

A sophisticated shielding and filtering concept ensures that the interfaces are highly immune against radiation and do not deliver out any significant emission.

An optional shielded power supply allows continuous operation or charging during operation.

## Features:

- RF-Immunity: Antenna radiated 200 V/m, 200 MHz –18 GHz, ISO11452-2, CW, AM, PM Stripline 200 V/m, 10 k – 1 GHz, ISO11452-5, CW, AM, PM
- Emission: EMC compliant to CISPR25 Class 5, 150 k – 4 GHz
- Battery (up to 30 h hours operation)
- No galvanic connection between test equipment and measurement instrument
- Max. distance: depends on technology and use case
- Continuous operation with external 12V/2A power supply possible

## Accessories:

**Standard:**

- One set consists of two converter units
- All interfaces are shipped with the appropriate power supply or battery and charger.

**Optional:**

- Fibre optic cables: variable lengths ST/FSMA-onnector or ST/ST-connector
- FO-Patches (Feed Through wall Patches)

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## Technical Data

| | |
|---|---|
| **foCAN LS, HS/FD** | – Low speed ISO11989-3, up to 125 kBit/s<br>– High speed ISO11989-2, 20-1000 kBit/s<br>– Fault tolerant bus lines<br>– Switchable termination (500 Ohm to 5 kOhm) |
| **foLIN** | – 1 – 20 kbit/s<br>– Switchable terminator |
| **foCarCharger** | – Electrical Interface: chargers for electro vehicles<br>– Versatile solution supporting AC and DC charging and various world wide standards (EU, US, CN, JP) |
| **foEthernet**<br>**foEthernet4C** | – Autodetect: 10Base-TX, 100Base-TX, 1000Base-T<br>– Shielded 5 channel switch with 4 elelctrical and one optical channel |
| **foBroadR-Reach** | – 100/1000Base-T1 (BroadR-Reach based on Marvell 88Q2112)<br>– 100/1000Base-TX or 100/1000Base-T1 connection<br>– Converter 100/1000Base-T1 to 100/1000Base-TX |
| **foEthernet-10Base-T1/T2** | – Single wire Ethernet |
| **foUSB 3.0** | – Downward compatible to 2.0 and 1.0 |
| **foHDMI** | – Full HD 1080 p, uncompressed<br>– Unidirectional, 10.2 GBit/s High speed duplex (up to HDMI 1.2) |
| **foRS232** | – Single channel w/o handshake, up to 116 kBaud |
| **foRS485 / 422** | – Up to 10 MBit/s |
| **foAnalog-LS** | – Analog signals +/-1 V, +/- 5 V, +/-50 V, 1 Mhz |
| **foLVDS** | – 8channel in, 8channel out |
| **SPOE 100** | – Shielded POE injector |

Prices and specifications are subject to change without notice!

For more details see manuals or single datasheets.

PONTIS EMC PRODUCTS
A BRAND OF AUDIVO

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