foConverters Overview

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.

In most cases both units are shielded.

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 (approx. 8 hours operation) or mains powered

– Compact metal housing

– No galvanic connection between test equipment and measurement instrument

– Max. distance: depends on technology and use case

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- connector or ST/ST-connector

– FO-Patches (Feed Through wall Patches)

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Technical Data

foCAN (v 4)	– High speed ISO11989-2
	– 50–1000 KBaud (down to 10 on request)
foCAN-LS	– ISO 11898-3 (linear bus or / and star bus)
	– Data speed up to 125 kbit/s
	– Fault tolerant bus lines
	– Switchable termination (500 Ohm to 5 kOhm)
foLIN	– 1 – 20 kbit/s
	– Switchable terminator
foE-Charger	– Electrical Interface: chargers for electro vehicles
	– Versatile solution supporting AC and DC charging and various world wide standards (EU, US, CN, JP)
foEthernet	– Autodetect: 10Base-TX, 100Base-TX, 1000Base-T
	– 4 x port version available
foBroadR (Automotive)	– 100Base-T1 (BroadR-Reach) Automotive version
	– 100Base-TX or 100Base-T1 connection
	– Converter 100Base-T1 to 100Base-TX
foUSB 2.0	– High speed, full speed, low speed
	– USB 2.0 only (EHCI)
foHDMI	– Full HD 1080 p, uncompressed
	– Unidirectional, 10.2 GBit/s High speed duplex (up to HDMI 1.2)
foRS232	– Bidirectional, up to 116 kBaud
foRS485	– bidirectional communication with up to 1 MBit/s

Prices and specifications are subject to change without notice! For more details see manuals or single datasheets.

You can contact directly our local partners for sales and technical support

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