foConverters Overview

PONTIS
EMC PRODUCTS

foCAN
foUSB
foLIN
foETHERNET
foCARCHARGER
Broad-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)

foConverters Overview

Technical Data

foCAN LS, HS/FD	– Low speed ISO11989-3, up to 125 kBit/s – High speed ISO11989-2, 20-1000 kBit/s – Fault tolerant bus lines – Switchable termination (500 Ohm to 5 kOhm)
foLIN	– 1 – 20 kbit/s – Switchable terminator
foCarCharger	– 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 – foEthernet10G
foEthernet4C	– Shielded 5 channel switch with 4 elelctrical and one optical channel
foEthernet-10Base-T1S, 10Base-T1L	– Single wire Ethernet
foBroadR-Reach	– 100/1000Base-T1 (BroadR-Reach based on Marvell 88Q2112) – foBroadR-Reach10G – 100/1000Base-TX or 100/1000Base-T1 connection – Converter 100/1000Base-T1 to 100/1000Base-TX
foBroadR-Reach4C	– Shielded 5 channel switch with 4 elelctrical and one optical channel
foBroadR-Reach-10Base-T1S, 10Base-T1L	– Single wire BroadR-Reach
foUSB 3.0	– Downward compatible to 2.0 and 1.0
foHDMI	– Full HD 1080 p, uncompressed – 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

PONTIS EMC Products designed and manufactured by:

Audivo GmbH
Irrenloher Damm 30
92521 Schwarzenfeld
Germany

Phone +49 (9435) 5419-0
Fax +49 (9435) 5419-19
info@audivo.com
www.audivo.com

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

www.hvtechnologies.com india@pontis-emc.com zongkui.shao@pontis-emc.com