



- Low speed ISO 11898-3 up to 125 kbit/s
- High speed ISO11989-2 20–1,000 kbit/s
- Unbuffered
- Distance depends on speed
- EMC compliant to CISPR 25, Class 5 -10 dB

## foCAN LS, HS/FD

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 600 V/m, 10 – 1 GHz, ISO11452-5, CW, AM, PM
- Emission: EMC compliant to CISPR25 Class 5, 150 k-4 GHz, Battery version: -10 dB
- Battery (approx. 8 hours operation) or mains powered
- Compact metal housing
- No galvanic connection between test equipment and measurement instrument
- Max. distance: 10 m at 1000 kbit (longer length at lower speed possible)

## Accessories:

### Standard:

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

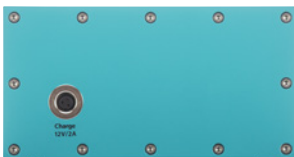
### Optional:

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

## Technical Data

|                                      |   |
|--------------------------------------|---|
| Physical CAN specification LS        | ISO 11898-3, up to 125 kBit/s   |
| Selectable CAN bus termination LS    | 500 Ohm to 5 kOhm   |
| Physical CAN specification HS/FD     | ISO 11898-2, 20-1000 kBit/s   |
| Selectable CAN bus termination HS/FD | 120, 60 Ohm or none   |
| Allowed CAN-DC-levels                | Up to +30V, CAN H/CAN L to GND  |
| Recessive bus level                  | 2,5V to GND   |
| Selectable CAN bus termination       | 120, 60 Ohm or none   |
| Data transmission                    | transparent, unbuffered   |
| Electrical connector                 | DSUB, 9-pin, male, 2 Can L, 3 GND, 7 Can H  |
| Fibre optic connection               | FST   |
| Fibre optic cables                   | multimode duplex fibre, 50/125 µm<br>maximum fibre length depends at operation mode an<br>CAN bus speed<br>10 m at 1000 kbit, longer length at lower speed possible |
| Wavelength                           | 850 nm  |
| Charging input                       | 12V DC, 1A, mains power supply or rechargable battery   |
| Compatibility                        | can operate with 24 V vehicles  |
| Operating temperature                | 0 °C / +40 °C   |
| Operating humidity                   | 20 to 85 % RH   |
| Weight per converter                 | 0.8 kg  |
| Housing                              | passivated aluminium, grey-petrol   |
| Dimensions per converter             | 103 x 127 x 67 mm (LxWxH)   |

Converter 1:



Converter 2:



Prices and specifications are subject to change without notice! For more details see manual.

PONTIS EMC Products designed and manufactured by:

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