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Xensor Integration bv

Distributieweg 28
2645 EJ Delfgauw
The Netherlands

Phone +31 (0)15-2578040 Founded 18 May 1988
Fax +31 (0)15-2578050 Trade reg. 27227437
Email info@xensor.nl Site www.xensor.nl

Smart Sensor Devices

ABN-AMRO 60 50 40 311
IBAN NL42ABNA060504031
1
VAT NL 009122746 B01

1 Description

1.1 CAN bus

The CAN bus is a protocol that defines how to communicate with one or more instruments on the CAN bus. The bus itself consist of a 4-wire cable, 2 wires supplying power to the instruments, 2 wires for data transfer. The data wires of the bus are terminated with 120 Ohm resistors, the characteristic impedance of the bus is also 120 Ohm. Instruments can be connected with a separate cable to the bus of maximally 0.3 m length. The bus itself can be up to hundreds of meters long, the length does have an influence on the maximum data rate, which is 1 Mb/s for short buses. For further details on the CAN bus protocol, please consult the relevant documentation.

1.2 Xensor CAN devices: XEN-5320-CAN

Xensor offers two CAN devices for thermal conductivity measurements (XEN-5320-CAN):

- a high-pressure stainless steel version (HP) with an optional connection cable.
- a sensor with a compact ABS housing and a fixed connection cable to the bus, incorporating a T-piece.

For these two devices Xensor offers several accessories.

1.3 CAN bus accessories

The CAN bus that Xensor offers has M12 male-female connectors with a temperature range of -40 °C to +90 °C in static operation. The humidity protection level is IP67.

Xensor offers a 12 V power supply for the bus with a M12-T piece. A CAN-USB interface is also available for communication between the CAN bus and a PC or laptop.

Xensor has available LabView read-out software compatible with the Kvaser CAN-USB interface, and offers this interface for those who want to do one-stop shopping. Users doing their own CAN bus read out can use their own set up, and even their own CAN bus if they prefer.

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The following is available to make the bus.

Table 1: Various CAN bus accessories

Item	Description
XEN-84002	Cable M12-T for CAN HP housing
XEN-84005	Cable 0.5 m male M12 - female M12 connectors
XEN-84010	Cable 1 m male M12 - female M12 connectors
XEN-84020	Cable 2 m male M12 - female M12 connectors
XEN-84040	Cable 4 m male M12 - female M12 connectors
XEN-84100	Cable 10 m male M12 - female M12 connectors
XEN-84200	Terminator set 120 Ohm male M12 - female M12 connectors
XEN-84201	CAN bus Power supply 12V M12-T
XEN-84202	Kvaser CAN-USB interface M12-T



XEN-84002: Cable M12-T for CAN HP housing



XEN-84005: Cable 0.5 m male M12 - female M12 connectors Other cables similar, but longer.



XEN-84200: Terminator set 120 Ohm male M12 - female M12 connectors



XEN-84201: CAN bus Power supply 12V with M12-T-piece

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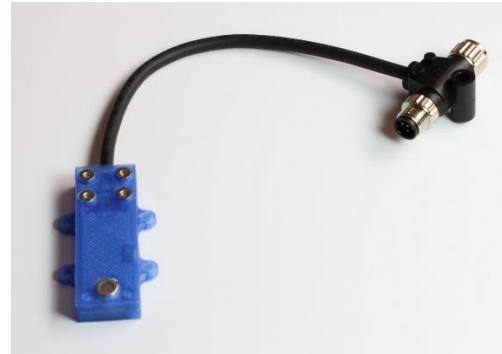
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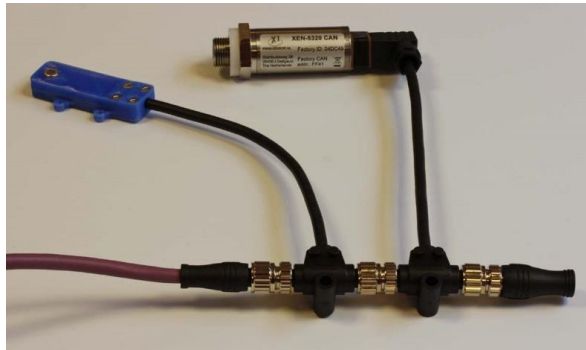
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XEN-84202: Kvaser CAN-USB interface with M12-T-piece



XEN-5320-CAN with ABS housing and CAN bus M12 male-female T-connection.



XEN-5320-CAN devices with ABS and HP housing and 120 Ohm Terminator.

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Xensor Integration *bv*

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