

1-channel thermal data acquisition

μCAN.1.ti-TRS

1-channel thermal data acquisition module for Pt100 or thermocouple with CAN interface

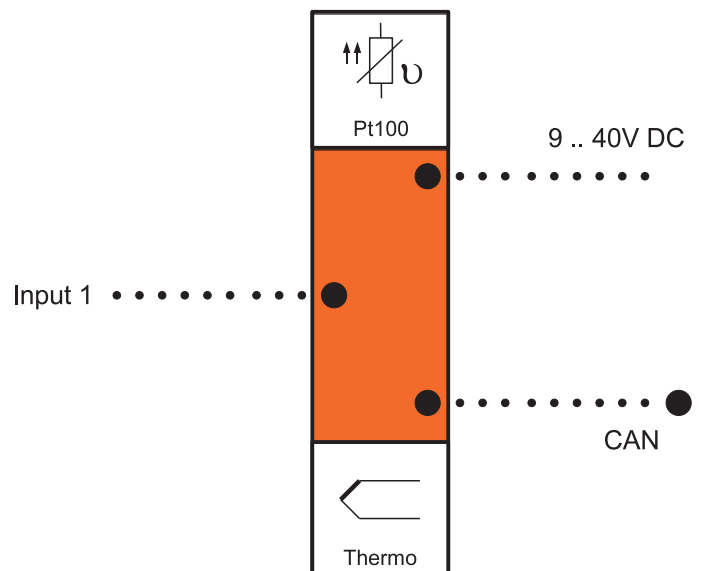
The μCAN.1.ti-TRS cable transmitter is the universal data acquisition module for temperature signals. The module is designed for Pt100 or thermocouple signals. The transmitter can be incorporated into your measuring lines.

The temperature signal is sent via short connection lines to the μCAN.1.ti-TRS where the data is digitalized and sent on via CAN bus interface to a distributed logging station.



Features

- Acquisition of Pt100 temperature signals with 16-bit resolution
- Thermocouple type J,K,L, ... with 16 bit resolution and internal cold junction compensation
- Equipped with M12 plug-in circular connectors
- Protocol CANopen CiA-404
- Indication of deviation from measurement range
- Ambient temperature range -40°C to +85°C



Technical Data	μCAN.1.ti-TRS
Number of channels	1
Power supply voltage	9...40 V DC, reverse voltage protection
Power consumption	max. 1W (42mA @ 24V DC)
Electrical isolation	---
Operating temperature	-40°C...+85°C
Baud rate	20kBit/sec to 1MBit/sec
Protocol	CANopen CiA-404 / CAN 2.0A and CAN2.0B / others upon request
Number of PDOs	2 transmit PDOs
Configuration	Sensor type via field bus Bitrate and module address via LSS
Status indicator	---
Protection class	IP67
Housing	Stainless steel circular casing, 22 x 52mm (diam. x L)
EMC	EN 50082 compliant
Resolution / Sampling rate	16-bit / 50Hz
Signal type / Accuracy @ 23°C ambient temperature	Pt100 measurement range -100°C...+850°C, resolution 0.1K, accuracy +/- 0.1K Thermocouple J,K measurement range -200°C...+1200°C, resolution 0.1K, accuracy +/- 0.2K

Order Number	Description
16.20.016	μCAN.1.ti-TRS / Pt100 1-channel analogue acquisition module with CANopen. Signal type Pt 100. Connection by M12 circular connectors.
16.20.017	μCAN.1.ti-TRS / Pt1000 1-channel analogue acquisition module with CANopen. Signal type Pt 1000. Connection by M12 circular connectors.
16.20.015	μCAN.1.ti-TRS / Thermo K 1-channel analogue acquisition module with CANopen. Signal type Thermo K. Connection by M12 circular connector and mini-style thermoconnector K.
16.20.010	μCAN.1.ti-TRS / Thermo J 1-channel analogue acquisition module with CANopen. Signal type Thermo J. Connection by M12 circular connector and mini-style thermoconnector J.
16.20.009	μCAN.1.ti-TRS / Thermo L 1-channel analogue acquisition module with CANopen. Signal type Thermo K. Connection by M12 circular connector and mini-style thermoconnector L.
90.02.400	Y junction for M12 connectors
90.02.401	Terminal resistor for M12 connectors
16.10.901	Operating manual in English