MicroControl
Systemhaus für Automatisierung

2-channel analogue acquisition

µCAN.2.ai-TRS

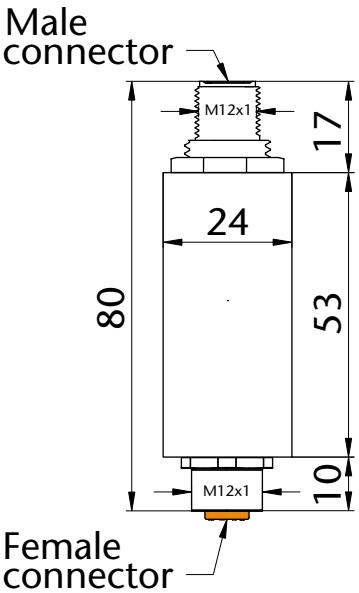
1-channel analogue acquisition module for voltage or current signals with CAN interface

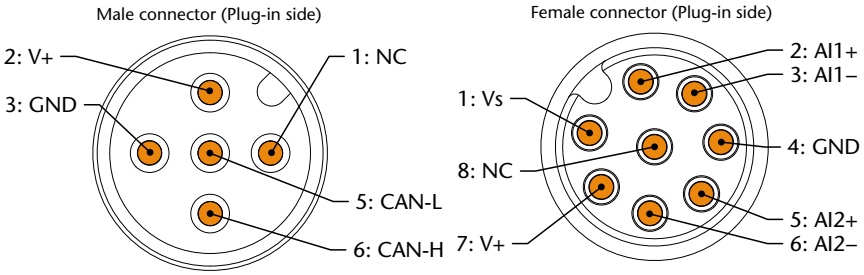
The µCAN.2.ai-TRS cable transmitter is the universal data acquisition module for analogue signals. The module is designed to measure +/-10 V and 0(4) ... 20 mA signals. The transmitter can be integrated directly into the measuring line.

The analogue signal is sent via short connection lines to the µCAN.2.ai-TRS where the data is digitalized and sent on via CAN bus interface to a distributed logging station.

- High-speed interface with CAN, CAN FD
- Sample rate up to1 kHz
- Innovative measurement technology

Features





Order ID	Description
16.50.002	µCAN.2.ai-TRS / voltage 2-channel analogue acquisition module. Signal type ± 10V DC. Connection via M12x1 circular connector. Fieldbus: CAN / CAN FD. Protocols: CANopen / CANopen FD / J1939.
16.50.001	µCAN.2.ai-TRS / current 2-channel analogue acquisition module. Signal type 0(4)...20 mA. Connection via M12x1 circular connector. Fieldbus: CAN / CAN FD. Protocols: CANopen / CANopen FD / J1939.

Technical data	Sensor acquisition µCAN.2.ai-TRS
Power supply	
Power supply voltage	9 V DC .. 36 V DC, reverse polarity protected
Power consumption	Max. 410 mW
Current consumption	Max. 45 mA @ 9 V DC
Operating temperature	-40 °C to +85 °C
Communication	
Interface	CAN, CAN FD
Protocols	CANopen, CANopen FD, J1939
Bit rate CANopen CC	50, 100, 125, 250, 500, 800, 1000 kBit/s
Bit rate CANopen FD	250/1000, 250/2000, 500/2000, 1000/4000 kBit/s
Bit rate J1939	250, 500 kBit/s
Construction	
Housing	Stainless steel circular casing L 53 x Ø 24 mm
Protection class	IP67
Dimension (L x Ø)	81 x 24 mm
Weight	85 g
Connection sensor	Circular connectors, 8-pole, socket, M12
Connection CAN	Circular connectors 5-pole, plug, M12
Analogue inputs	
Number of channels	2
Resolution	16 Bit
Accuracy	0.01 % v.E. @ 25 °C
Sample rate	Adjustable, to 1 kHz
Configuration voltage	± 10 V, input impedance 500 kΩ
Configuration current	0 .. 20 mA, input impedance 50 Ω