

1-channel analogue acquisition

μCAN.1.ai-SENSOR

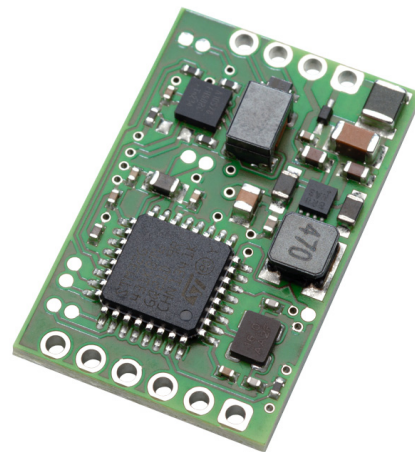
1-channel analogue acquisition module for pressure signals with 16-bit resolution

The **μCAN.1.ai-SENSOR** module can be combined with any sensor. It is designed for the acquisition of an analogue sensor signal.

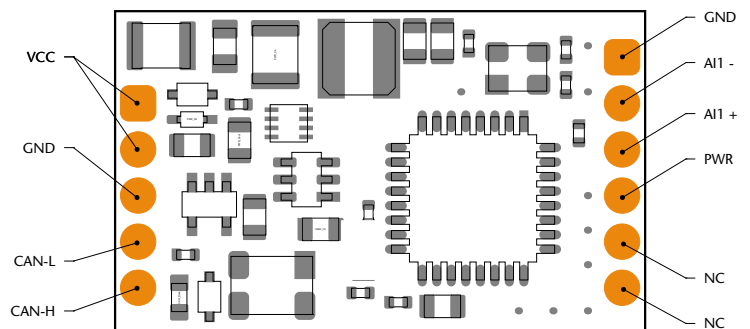
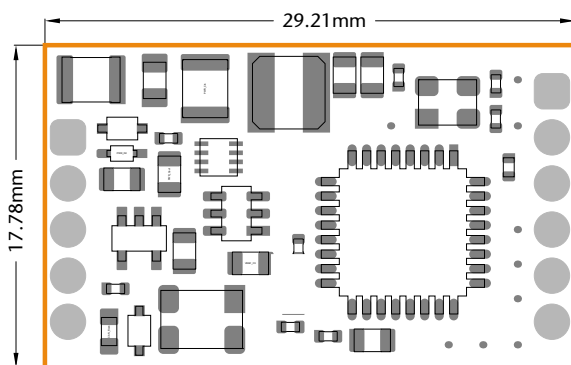
The μCAN.1.ai-SENSOR is integrated into the sensor head (diameter 18 mm). Sensor tolerances can be adjusted with the module already built in.

Sensor signals are linearized and supervised via the hardware.

- High-speed interface with CAN, CAN FD
- Sample rate up to 1 kHz
- Innovative measurement technology



Features



Order ID	Description
13.50.050	μCAN.1.ai-SENSOR / voltage 1-channel sensor acquisition module with CANopen to be integrated into sensors. Signal type ± 10 V. Connection by through-hole-technology (THT) in a 2.54 mm grid. Fieldbus: CAN / CAN FD. Protocols: CANopen / CANopen FD / J1939.
13.60.050	μCAN.1.ai-SENSOR / current 1-channel sensor acquisition module with CANopen to be integrated into sensors. Signal type 0 mA .. 20 mA. Connection by through-hole-technology (THT) in a 2.54 mm grid. Fieldbus: CAN / CAN FD. Protocols: CANopen / CANopen FD / J1939.

Technical data	Sensor acquisition μ CAN.1.ai-SENSOR
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
Board	
Dimension (W x D x H)	28 x 18 x 6 mm
Weight	10 g
Connection	Through-hole-technology (THT) in a 2.54 mm grid
Analogue inputs	
Number of channels	1
Resolution	16 Bit
Accuracy	0.01 % v.E. @ 25 °C
Sample rate	Adjustable, up to 1 kHz
Configuration voltage	± 10 V, input impedance 500 k Ω
Configuration current	0 .. 20 mA, input impedance 50 Ω