



4-channel analogue acquisition

µCAN.4.ai-BOX

4-channel analogue acquisition for current or voltage signals

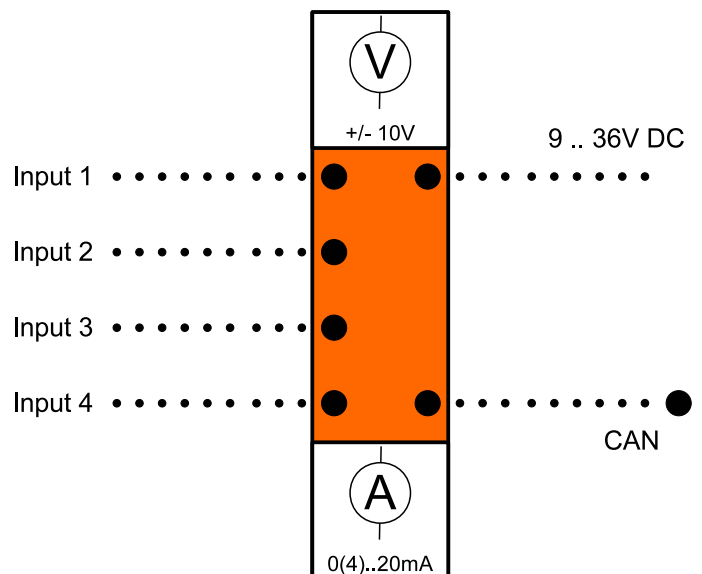
The µCAN.4.ai-BOX is the expanded universal instrument for the acquisition of standard analogue signals. The unit is designed to measure of +/-10V and 0(4) to 20mA signals with an 800 Hz overall sampling rate.

The evaluation and linearisation of the sensor signals are carried in a robust die-cast aluminium housing. The data are sent over the CAN bus to the central evaluation site.



Features

- Acquisition of up to four analogue inputs with 16-bit resolution for standard $\pm 10V$, 0-20mA and 4-20mA signals
- Standard protocol: CANopen CiA 404
- Die-cast aluminium housing of protection class IP66, ideally suitable for heavy-duty industrial use
- Device status displayed by two bi-colour LEDs
- Module monitored by heartbeat function
- Automatic re-boot and startup



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| Technical Data | μ CAN.4.ai-BOX |
|---|--|
| Number of channels | 4 |
| Power supply voltage | 9...36 V DC, polarity protected |
| Power consumption | 2W (84mA @ 24V DC) |
| Electrical isolation | channels/control voltage: 1000Veff, fieldbus/control voltage: 1000Veff |
| Operating temperature | -40°C...+85°C |
| Transfer rate | 50kBit/sec to 1MBit/sec |
| Protocol | CANopen CiA 404 / Custom CAN / CAN 2.0A and 2.0B |
| Number of PDOs | 2 transmit PDOs |
| Baudrate and address | Baud rate and module address via DIP switches or via LSS |
| Status display | 2 bi-colour LED for module status information |
| Protection class | IP66 |
| Housing | Die-cast aluminium 125x57x80mm (LxWxD) |
| Resolution / conversion time Measurement range / error @ 23°C ambient temperature | + /-10V DC accuracy 0.01% FS, input resistance 500 kOhm 0(4)-20mA accuracy 0.01% FS, input impedance 50 Ohms Output value $\Delta U = 1 \text{ mV} / \Delta I = 1 \mu\text{A}$ |
| EMC | complies with EN 50082 |

| Order No. | Description |
|-----------|--|
| 12.44.003 | μ CAN.4.ai-BOX / Voltage 4-channel analogue acquisition with CANopen, Signal type +/- 10V DC , 16-bit resolution designed for metric cable gland, connection via screw terminals |
| 12.45.003 | μ CAN.4.ai-BOX / Current 4-channel analogue acquisition module with CANopen, Signal type 0(4)..20mA , 16-bit resolution, designed for metric cable gland, connection via screw terminals |
| 90.01.114 | Metric cable gland set for 4-channel field modules |