MicroControl
Systemhaus für Automatisierung

16-channel Temperature Acquisition

µLAB.16.ti-19"slide-in / thermocouple

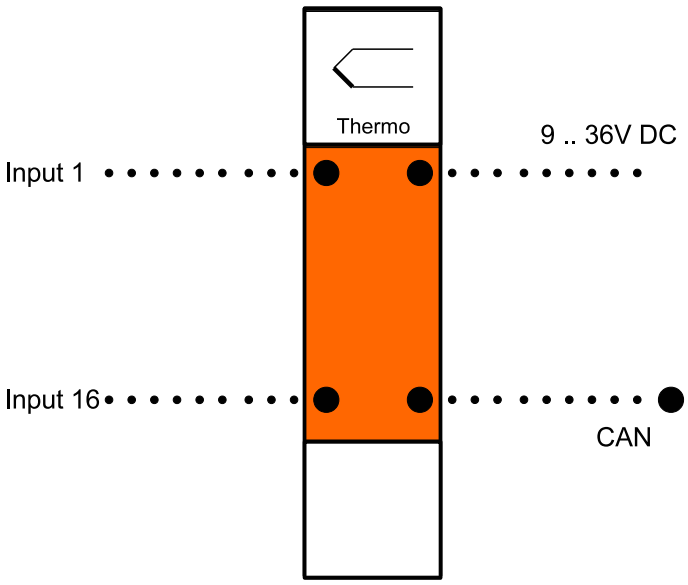
16-channel temperature acquisition module for thermocouples in 19"-technology

The module is equipped to acquire 16 temperature signals.

Measurement signals are acquired via plug-in connectors in the front plate.

Features

- Temperature measurement at 16-bit resolution
- Thermocouples type K
- Acquisition module in 19"-technology (1HE, 84TE)
- Standard protocol: CANopen CiA 301, CiA 305, CiA 404 / customer specific CAN / CAN 2.0A and 2.0B



Technical Data	Temperature acquisition µLAB.16.ti-19"slide-in / thermo
Number of channels	16
Power supply voltage	9..36 V DC, reverse polarity protected
Power consumption	8 W (336 mA @ 24 V DC)
Electrical isolation	Channels/control voltage: 500Veff, Fieldbus/control voltage: 500 Veff
Operating temperature	-40 °C...+85 °C
Storing temperature	-40 °C...+85 °C
Bit rate	50 kBit/s to 1 MBit/s
Protocol	CANopen CiA 301, CiA 305, CiA 404 / customer specific CAN / CAN 2.0A and 2.0B
Number of PDOs (CANopen)	8 transmit PDOs
Number of node IDs	4
Configuration	Bit rate and module address via DIP switch
Status indication	none
Protection Class	IP20
Casing	19" technology (1HE, 84TE)
EMC	EN 50082 compliant
Resolution / conversion time	16-bit (internal resolution 18-bit) / 100 Hz (10 ms)
Notation	one decimal digit (e.g.: 100.1°C)
Measurement range / error @ 23°C ambient temperature	Thermal signals type K, with cold junction compensation: -200°C...+1200°C, resolution 0.1K / accuracy +/- 0.1K Other signal types on request.

Order Number	Description
41.01.104	µLAB.16.ti-19"slide-in / thermo K 19" slide-in module for temperature acquisition of 16 sensors thermo type K (green) with CANopen, signal acquisition via thermal plug-in connectors, 24 V DC supply via 5-pole COMBICON connectors, CAN connection via 2 x M12 Binder connectors, 19"slide-in (1.094.171.3.000001) incl. front plate without handles, fuse T2.5A at M12 connectors, manufacturer calibration