

# 8-channel thermal data acquisition

## μCAN.8.ti-SNAP

### 8-channel thermal data acquisition for thermocouples or Pt100

The measurement data acquisition module μCAN.8.ti-SNAP is equipped with 8 inputs for thermocouples or Pt100 sensors.

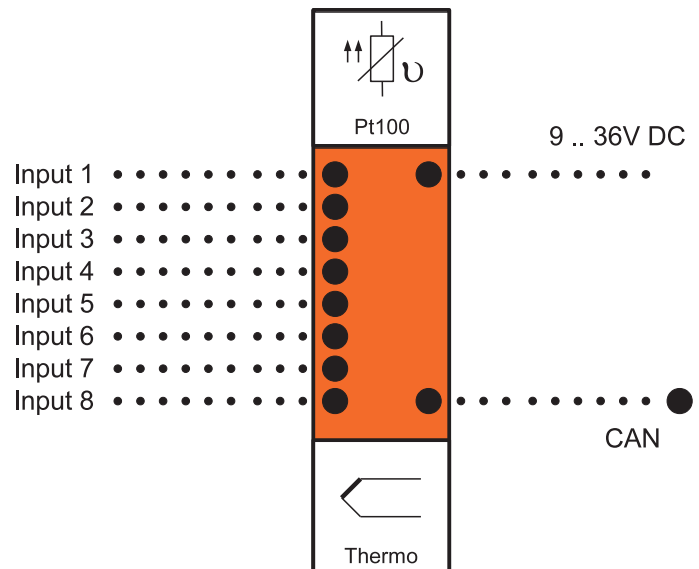
Due to its narrow and compact structure the μCAN module is ideally suited for DIN-rail assembly in a control cabinet.

Plug-in screw terminals facilitate quick integration of the μCAN.8.ti-SNAP into existing systems.



## Features

- Acquisition of thermal data with 16-bit resolution
- Pt100 or J, K, L,N, R and T type thermocouples
- Wire break and short circuit detection
- DIN-rail fastening TS35
- Protocoll: CANopen CiA 301 and CiA 404
- Extended ambient temperature range -40°C .. +85°C



Technical Data	Thermal data acquisition $\mu$ CAN.8.ti-SNAP
Number of Channels	8
Power supply voltage	9...36 V DC, reverse polarity protected
Power consumption	up to 1 W (42 mA @ 24 V DC)
Potential isolation	--- (optional field bus/control voltage: 500 Veff)
Operating temperature	-40 °C...+85 °C
Transfer rate	50 kBit/s to 1 MBit/s
Protocol	CANopen CiA 301 and CiA 404 (CAN 2.0A and 2.0B)
Number of PDOs (CANopen)	4 transmit PDOs
Configuration	Sensor type via field bus Bit rate and module address via DIP-switch
Status display	bi-colour LED for system status information
Protection class	IP20
Casing	Rail casing 22.5 x 128.8 x 102.0 mm (B x D x H)
EMC	EN 50082 compliant
Vibration resistance	---
Shock resistance	---
Resolution/conversion time	16-Bit / 20 ms
Measurement range / error @ 23°C ambient temperature	J, K, L, R and T type thermal signals with cold junction compensation -200 °C...+1,200 °C, resolution 0.1K, accuracy +/- 0.5 K Pt100 -100 °C...+850 °C, resolution 0.1 K, accuracy +/- 0.5 K  other signal types upon request

Item no.	Description
10.85.006	$\mu$ CAN.8.ti-SNAP / <b>thermocouple</b> / <b>no galvanic isolation</b> 8-channel thermal data acquisition module for J, K, L, N, R and T type thermocouples. Bus interface CANopen, no galvanic isolation. Signal wiring via COMBI-CON connectors.
10.85.008	$\mu$ CAN.8.ti-SNAP / <b>thermocouple</b> / <b>no galvanic isolation</b> / <b>BUS</b> 8-channel thermal data acquisition module for J, K, L, N, R and T type thermocouples. Bus interface CANopen, no galvanic isolation. Signal wiring via COMBI-CON connectors. Integrated bus- / voltage connector for side-by-side stacking of further SNAP modules.
10.85.005	$\mu$ CAN.8.ti-SNAP / <b>thermocouple</b> / <b>galvanic isolation</b> 8-channel thermal data acquisition module for J, K, L, N, R and T type thermocouples. Bus interface CANopen, galvanic isolation. Signal wiring via COMBI-CON connectors.
10.85.007	$\mu$ CAN.8.ti-SNAP / <b>thermocouple</b> / <b>galvanic isolation</b> / <b>BUS</b> 8-channel thermal data acquisition module for J, K, L, N, R, and T type thermocouples. Bus interface CANopen, galvanic isolation. Signal wiring via COMBI-CON connectors. Integrated bus- / voltage connector for side-by-side stacking of further SNAP modules.

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<b>Item no.</b>	<b>Description</b>
<b>10.85.103</b>	<b>μCAN.8.ti-SNAP / Pt100 / no galv. isolation</b> 8-channel thermal data acquisition module for resistance temperature detector Pt100. Bus interface CANopen, no galv. isolation. Signal wiring via COMBICON connectors.
<b>10.85.104</b>	<b>μCAN.8.ti-SNAP / Pt100 / galv. isolation</b> 8-channel thermal data acquisition module for resistance temperature detector Pt100. Bus interface CANopen, galv. isolation. Signal wiring via COMBICON connectors.

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