



## 4-channel temperature input

### μCAN.4.ti-F1 / thermocouple

#### 4-channel data acquisition module for thermocouple with CAN interface

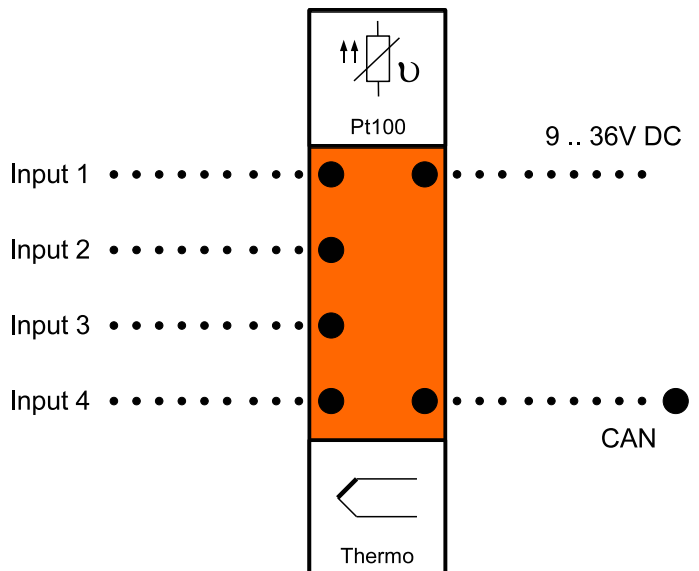
The μCAN.4.ti-F1 is the ultimate data acquisition module for your mobile test bench. The module can handle different thermocouple inputs with an **overall sample rate of 30kHz and**.

Linearisation and monitoring of signals is done inside the robust alu die-cast housing. Data is sent over the CANbus interface to the distributed logging station or laptop computer.



#### Features

- Thermocouple input, internal CJC
- Sample rate max. 3kHz per input
- working ambient temperature -40°C to +85°C
- CAN 2.0A and CAN 2.0B / RawCAN
- free software configuration tool
- protection class IP65
- status monitoring with dual-colour LED



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Technical Data	<b>μCAN.4.ti-F1 / thermocouple</b>
Channels	4
Supply Voltage	9...36 V DC, reverse current protected
Power Consumption	2W (84mA @ 24V DC)
Isolation	Input/Supply.: 500Veff, Fieldbus/Supply.: 500Veff
Working Temperature	-40°C...+85°C
Baudrate	20kBit/sec ... 1MBit/sec
Protocol	RawCAN / CAN 2.0A and 2.0B
Configuration	free configuration software
Status Indicator	1 dual-colour LED
Protection Class	IP65
Housing	Aluminium, 120x110x48mm (LxBxT)
EMC	according to EN 50082
Accuracy @ 23°C ambient temperature	thermocouple types K,J,L,R,S,T with integrated cold junction compensation: -200°C...+1.200°C, resolution 0,01K / accuracy +/- 0,2K
Sample Rates [Hz]	2 ... 3750
Resolution	2Hz / 24-bit 3kHz / 18-bit
Filter	Software filter / selectable time base
Configuration of analogue inputs	SYNC driven sending ADC-Interrupt driven sending Timer driven sending

Order Number	Description
17.40.004	μCAN.4.ti-F1 / thermocouple type K 4-channel analogue acquisition module with CAN interface, signal input Thermocouple Type K, signal connector mini style thermo inputs ( green ), Power and CAN signal with Lemo B series receptacle (female contacts), inclusive 1 connection element
90.15.001	F1/F1 connector (CAN + Power) length 140mm, Lemo B series connectors ( male )
90.15.100	F1 external connector F1 cable connector 2mtrs. with Lemo B Series connector ( to F1 ) and open wire ( to interface of any other system )
90.15.300	Sensor Connector F1 Straight Plug, FGG.0K.306.CLAC50, 6-pole, solder contacts