

MU-Thermocouple1 CAN

Configurable System for Data Acquisition and Data Processing

The Thermocouple measuring unit offers connections for 8 thermocouples for different temperature ranges (J, K, T).

Measurement data can be preprocessed and transmitted via CAN bus using a central microcontroller. Configuration work involves using Windows software on a computer connected to the same CAN bus.



Specifications

- ___ 8 Mini sockets for thermocouple types J, K, and T (depending on the assembly of measuring modules at delivery)
- ___ 4 galvanically isolated measuring modules, each with 2 thermocouple sockets of the same type
- ___ Measuring ranges:
 - J: -210 to +1121 °C
 - K: -200 to +1370 °C
 - T: -200 to +400 °C
- ___ Measurement accuracy: 0.2 %
- ___ Accuracy of the reference sensors: typically ±0.5 K, max. ±1.0 K at +25 °C ambient temperature
- ___ Resolution for temperature data at CAN communication: 1/16 °C
- ___ High-speed CAN connection (ISO 11898-2) for data transfer and configuring
 - Bit rates from 40 kbit/s up to 1 Mbit/s
 - Galvanic isolation up to 500 V
 - NXP TJA1040 CAN transceiver
 - Complies with CAN specifications 2.0 A/B
- ___ Basic configuration with the Windows software Thermocouple Configuration
- ___ Advanced configuration with the Windows software PPCAN-Editor 2
- ___ Preprocessing of readings possible with integrated microcontroller
- ___ Aluminum casing with flange. DIN rail fixing option available on request
- ___ Voltage supply from 6 to 34 V
- ___ Extended operating temperature range from -40 to 85 °C (-40 to 185 °F)

Ordering information

Designation	Part No.
MU-Thermocouple1 CAN (Measuring Range J)	IPEH-002205-J
MU-Thermocouple1 CAN (Measuring Range K)	IPEH-002205-K
MU-Thermocouple1 CAN (Measuring Range T)	IPEH-002205-T

Scope of supply

- ___ MU-Thermocouple1 CAN in aluminum casing
- ___ Mating connector for voltage supply
- ___ Configuration software Thermocouple Configuration for Windows 10, 8.1, 7 (32/64-bit)
- ___ Configuration software PPCAN-Editor 2 for Windows (details on page 108)
- ___ Manual in PDF format

Requirements

- ___ The configuration requires a PEAK CAN interface