

MU-Thermocouple1 CAN FD (IPEH-004005J / K / T) – Detailed Data Sheet



Product Description

The MU-Thermocouple1 CAN FD module by PEAK-System is a configurable temperature measurement device with CAN FD interface. It captures, preprocesses, and transmits thermocouple temperature data via CAN FD or classic CAN. The device supports 8 thermocouple connections and is available in versions supporting measuring ranges J, K, or T. Temperatures can be captured in Celsius, Fahrenheit, or Kelvin and processed with individual scale and offset. Once configured using the Thermocouple FD Configuration software, the module operates as an independent CAN node.

Technical Specifications

Feature	Specification
Thermocouple Connections	8 Mini sockets for types J, K, or T
Isolated Measuring Modules	4 galvanically isolated modules, each with 2 sockets
Measuring Ranges	J: -210 to +1121 °C (-346 to +2050 °F) K: -200 to +1370 °C (-328 to +2498 °F) T: -200 to +400 °C (-328 to +752 °F)
Measurement Accuracy	0.2% or 1 K
Reference Temperature Sensor Accuracy	±0.5 K typical, ±1.0 K max at 25 °C
Resolution	1/16 °C
CAN Connection	High-speed CAN (ISO 11898-2), CAN 2.0 A/B and FD compliant
CAN FD Bit Rates	25 kbit/s to 10 Mbit/s (up to 64-byte data field)
CAN Bit Rates	25 kbit/s to 1 Mbit/s
CAN Transceiver	NXP TJA1044GT
Galvanic Isolation	Up to 500 V

LED Indicators	For measurement channels and power supply
Voltage Supply	8 to 30 V
Operating Temperature	-40 to +85 °C (-40 to +185 °F)
Housing	Aluminum casing with flange; optional DIN rail mounting
Configuration Software	Thermocouple FD Configuration for Windows 11/10

Scope of Supply

- MU-Thermocouple1 CAN FD module in aluminum casing
- Mating connector for voltage supply
- Thermocouple FD Configuration software for Windows
- PDF manual

Note: Thermocouple probes are not included.

Requirements

- PEAK CAN interface required for configuration via CAN bus

Ordering Information

- MU-Thermocouple1 CAN FD (Range J) – Part No.: IPEH-004005J
- MU-Thermocouple1 CAN FD (Range K) – Part No.: IPEH-004005K
- MU-Thermocouple1 CAN FD (Range T) – Part No.: IPEH-004005T