

MEASUREMENT MODULES

Digitized sensor data available on CAN

The μ CAN-F1 measurement modules from Microcontrol can be provided with CANopen (FD) and J1939.



The μ CAN-F1 modules for voltage, current, temperature, strain gauge, and frequency can be expanded and stacked as desired (Source: Microcontrol)

The devices are equipped with measurement inputs for voltage, current, temperature, strain gauge, and frequency signals. They can be expanded and stacked as desired. Measured values are digitized and send via the device's CAN interface to the central evaluation unit. CAN frames with 11-bit and 29-bit CAN-Identifiers can be used. The supported higher-layer protocol can be chosen according to the customer requirements.

For example, the μ CAN.4.ti-F1 is dedicated for mobile acquisition of temperature data. Four analog inputs for temperature measurement with Pt100 sensors or diverse thermocouples are available. The inputs can be polled at an overall sample rate of up to 4 kHz (i.e. up to 1 kHz per unit). An internal cold junction compensation is provided. The modules are shipped with a free configuration software. The company has placed the electronics for evaluation and linearization of the sensor signals in a rugged IP65-rated aluminum die-cast casing. Device status is indicated via a bi-color LED. Possible application environment temperature can range from $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$. The modules require a supply voltage of 9 V_{DC} to 36 V_{DC} .

The company's development and production teams also provide individual solutions including customized modules, connectors, or additional functions.

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