

Influx

K-TC RANGE



Measuring Temperature



K-TC RANGE -Measuring Temperatures



Thermocouples are popular for vehicle tests as they are less expensive than RTD and have a wide input temperature range of -200 to +1200 degree C elsius.

Test applications often require over 200 thermocouple measurements, so we have developed a range of stackable **K-series** thermocouple modules that can be inter-connected and configured together so that any combination of inputs can be realised. The thermocouple modules are supplied with either 8, 16 or 32 thermocouple inputs.

P/N: INF2205 P/N: INF2206 P/N: INF2204



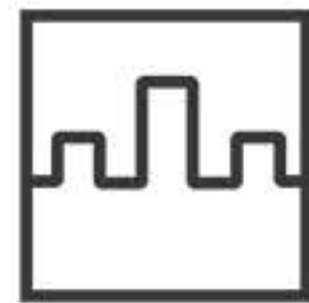
•CAN
Output



•Micro SD



•Temp
Reading



•Digital
Signals

Advantages

- Internal data storage for standalone long term temperature data logging.
- Highly accurate measurement with internal cold junction compensation.
- Direct connection to a PC via USB.
- 8GByte internal micro card
- Work temperature: -40 degree C to +85 degree C)

Our **K-series** thermocouple modules feature internal cold junction compensation which is critical when measuring over a wide range of operating temperatures.

A big advantage of our thermocouple modules is that they can be used as standalone temperature data loggers with their own internal data storage capability.

Typical Applications

- Vehicle testing with additional instrumentation (digital, thermocouples etc.).
- Competitor bench testing (reverse engineering) via J1939 and OBD (UDS) data.
- Vehicle engineering component testing.



K-TC 8/16/32 -Measuring Temperatures



P/N: INF2206



•CAN Output



•Micro SD



•Temp Reading



•Digital Signals

Key features

- Each K-TC unit has up to 8, 16 or 32 thermocouple connections at 10Hz sampling rate.
- Supports K, J and T type thermocouples.
- Simple signal configuration using a DBC file.
- Supplied with configuration software Influx K-Cal for Windows® and configurable via a DBC file.
- Device drivers available for Windows® applications (32/64-bit).
- Configuration and programming via CAN or USB interface.
- WakeOnCAN enables K-TC modules to power up and power down in deep sleep mode.
- Measurement accuracy: ± 1 degree C, Measurement resolution: 0.1 degree C.
- Instrumentation data time synchronised with recorded vehicle network data via CAN.
- Galvanic isolation (enclosure, power, CAN bus and each module of 8 thermocouple inputs).
- Stackable ABS enclosure.

Stackable fast, accurate and reliable temperature measurement.

The **K-TC modules** belong to the Influx K-series instrumentation range for CAN applications.

The stackable **K-TC** is ideal for those applications that require a large number of thermocouples for example vehicle durability, winter and summer testing.

The **K-TC module's** CAN Bus settings, calibration and sampling rates are all easily configurable and stored in the **K-TC module** even when not powered.

The input calibration and set-up of the **K-TC module** is easily configurable via Influx **K-Cal** software, a freely distributable Windows pc application.

Furthermore **K-TC modules** can be integrated into your Windows applications via Influx **K_TC_LIB** the SDK, providing everything you need to develop your own applications. (Under developing.)

Technical Data

Function	Description
Power supply	4.5 to 36V DC
Power consumption	Normal operation 150mA to 350mA at 12V
	Power down standby mode approx. 3mA at 12V
Configuration	via CAN bus with K-Cal
	Output control settings and configurations stored in the device
Interfaces	CAN bus (max 1000 kbps)
PC interfaces	Power by USB2.0 Type B (isolated)
Enclosure	Dimension (LxHxW): 115x 26(K-TC8), 46(K-TC16), 86(K-TC32) x105 mm
	Weight: 430g(K-TC8), 570g(K-TC16), 900g(K-TC32)
	IP65
	ABS
Environmental	-40degC to +85degC
	Humidity max 90%
Thermocouple inputs	K, J, T-type
	±1 degC accuracy
	Measurement :-200degC to +1200degC
Connection type	Thermocouples: mini K, J ,T-Type
Thermocouple Inputs	
Number of channels	8x K, J, T-type inputs (K-TC8); 16x K, J, T-type inputs (K-TC16); 32x K, J ,T-type inputs (K-TC32)
Measurement range	-200degC to +1200degC
Max sampling rate	10 Hz per channel
Max applied voltage	±3.3 V

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K-Series Instrumentation Solution

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