

CAN MODULE TK_4

The TK4 is a small module to convert on CAN bus the signals of 4 k-type thermocouples. The CAN bus is configurable by using a free application software: it is possible to set the CAN speed, message frequency, message ID and other settings. Typical applications: exhaust temperature measurement, brakes temperature management.



TECHNICAL SPECIFICATIONS:

- ◆ Power supply: 5,5 – 16 Vdc
- ◆ Supply current: 15mA
- ◆ Transmission: CAN line 2.0A or 2.0B
- ◆ Input low pass filter: 160 Hz
- ◆ Resolution: 0,4 °C
- ◆ Accuracy: ± 1%
- ◆ Measure range: -40°C to 1300°C
- ◆ Operating temperature: -20°C to 80 °C
- ◆ Cable length: 170 mm AWG22
- ◆ Connection:

Purple	Supply
Black	GND
White	CAN H
Blue	CAN L
- ◆ Protection: IP67
- ◆ Size: 38 x 25 x 28mm (without cable)
- ◆ Case material: Aluminum
- ◆ Weight: ~54g (with 180mm cable)

CAN BUS SETTINGS (to be specified when ordering)

- ◆ BUS speed → Default 1Mb
- ◆ Message ID for each input
- ◆ Word format → Little or Big Endian
- ◆ Message frequency → Fixed or Updated Value
- ◆ Message format → "Normal" or "All In One"

Extended IDs 0x1n03ssss reserved

Normal Mode				
Message ID	Word1	Word2	Word3	Word4
0x200	Temp.1 Kelvin (0.1°)	Temp.1 Celsius (0.1°)	Temp.1 Fahrenheit (0.1°)	Amplifier Output 1 (mv)
0x201	Temp.2 Kelvin (0.1°)	Temp.2 Celsius (0.1°)	Temp.2 Fahrenheit (0.1°)	Amplifier Output 2 (mv)
0x202	Temp.3 Kelvin (0.1°)	Temp.3 Celsius (0.1°)	Temp.3 Fahrenheit (0.1°)	Amplifier Output 3 (mv)
0x203	Temp.4 Kelvin (0.1°)	Temp.4 Celsius (0.1°)	Temp.4 Fahrenheit (0.1°)	Amplifier Output 5 (mv)

All In One Mode				
Message ID	Word1	Word2	Word3	Word4
0x200	Temp.1 Kelvin (0.1°)	Temp.2 Kelvin (0.1°)	Temp.3 Kelvin (0.1°)	Temp.4 Kelvin (0.1°)