

8 CHANNEL ISOLATED THERMOCOUPLE TO CAN: T18-X

This compact CAN based 8 channel Isolated Thermocouple measures temperatures from -200°C to $+1800^{\circ}\text{C}$ at a rate of up to 40Hz per channel. Featuring open and short-circuit detection, T18-X eliminates current paths between thermocouples and indicates when the thermocouple wire is either broken, disconnected or if the unit is shorted to ground or power.



Each channel isolated to **1000VDC**



K type miniature thermocouple connectors but J, T, N, S, E, B and R supported



Accurate to $\pm 0.5^{\circ}\text{C}$ from 0 to 85°C and $\pm 1^{\circ}\text{C}$ from -40 to 125°C



Input **supply voltage** can range from 9 to 32V



Configurable CAN address and speed



Dimensions: 33 x 69.1 x 128.3mm ($\pm 0.5\text{mm}$). Mass: 250g

The standard unit comprises K type miniature thermocouple connectors allowing easy connection to other thermocouple types although the unit can be customised with other types of miniature thermocouple connectors if required. For multiple measurement channels, T18-X has two IP67 JWPF connectors allowing it to be daisy chained and it can be DIN rail mounted.

The configurable CAN bus speed and address along with the supplied DBC file allows easy addition into almost any CAN architecture and the potted electronics ensure T18-X is suitable for operation in harsh environments.

