High Speed 8 Channel Thermocouple Interface Card

Model TCIC Thermocouple Interface Card with USB/RS232/RS485

Model shown includes the optional ABS case

FEATURES

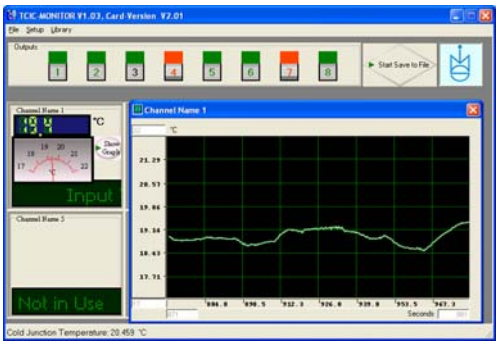
- Low cost high speed thermocouple measurement with USB interface.
- 8 Channel high resolution A/D converter with on-board noise filters. 400 channels / second
- Supports thermocouple types J,K,E,R,S,T or ±500 millivolts at 1 microvolt resolution
- On board cold junction compensation and temperature conversion functions enable stand-alone operation.
- RS232/RS485 communication option. Ideal for PLC based applications.
- Multiple boards may be connected via USB or RS485
- 8 opto-isolated outputs configurable as setpoints, latching alarms or user outputs
- TCIC-Monitor software supplied with each board

TYPICAL APPLICATIONS

- Fast data logging
- Stand-alone temperature monitoring for industrial applications.
- Connection to PLCs

SOFTWARE

- TCIC-Monitor software is included with the each board and operates as a sophisticated data logger, allowing data from all 8 channels to be logged to file. The Monitor software is able to control all parameters of the TCIC, which are stored in non-volatile on-board memory



- A LabVIEW™ vi demonstration is also included.

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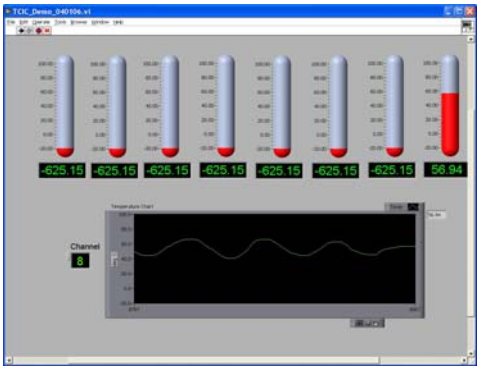

MAIN SPECIFICATIONS

THERMOCOUPLE & MILLIVOLT INPUTS

Each of the 8 input channels can be configured to measure either ±500 millivolts or one of the following thermocouple types, in any combination:

Type	Range ˚C	Accuracy ˚C	Resolution ˚C
J	-210 to 1200	± 1.5	0.019
K	-200 to 1372	± 1.5	0.024
E	-200 to 1000	± 1.5	0.015
R	-50 to 1768	± 2.0	0.125
S	-50 to 1768	± 2.0	0.143
T	-200 to 400	± 1.5	0.022
mV	±500mV	±0.1%	0.001 mV

STANDARD INTERFACE

USB as standard (USB powered)

OPTIONAL INTERFACE

Combined RS232/RS485 communications option

DIMENSIONS (MM)

- Standard OEM model 160 x 100 pcb (Eurocard)
- ABS cased option

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High speed temperature measurement