

USB TC-08

Thermocouple Data Logger



Description

The USB TC-08 thermocouple data logger offers industry leading performance and a cost effective solution for your temperature measuring needs. Offering 8 direct thermocouple inputs, the USB TC-08 is capable of taking accurate and fast readings. In addition, up to 10 units can be used simultaneously on one PC. Temperatures ranging from -270°C to $+1820^{\circ}\text{C}$ can be measured and recorded using the appropriate thermocouple type (B,E,J,K,N,R,S,T). Power is drawn from the USB port, eliminating the need for an external power supply.

Product
USB TC-08

Price
£249

Features

- Measures and records up to 8 thermocouples
- Works with all popular thermocouple types
- Wide temperature range (-270°C to $+1820^{\circ}\text{C}$)
- Built in cold junction compensation
- High resolution and accuracy
- No power supply required
- Supplied with PicoLog data logging software
- USB interface ensures problem free installation
- Multiple units can be run on a single PC

Specifications

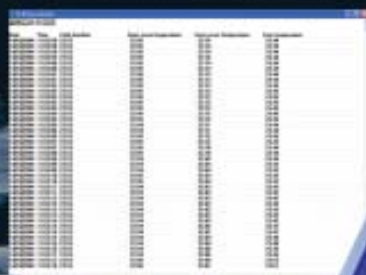
Number of channels	8
Temperature accuracy	The sum of $\pm 0.2\%$ and $\pm 0.5^{\circ}\text{C}$
Voltage accuracy	The sum of $\pm 0.2\%$ and $\pm 10\mu\text{V}$
Overload Protection	$> \pm 30\text{V}$
Input range	$\pm 70\text{mV}$
Reading Rate	Up to 10 readings per Second
Input connectors	Miniature thermocouple
Output connector	USB1.1 connector
Dimensions	85 x 145 x 25mm

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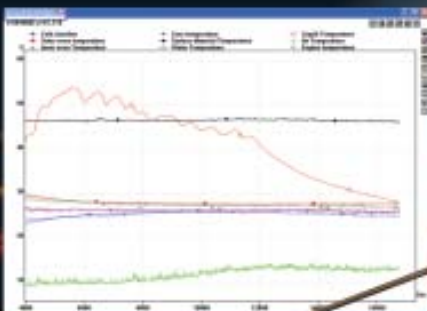
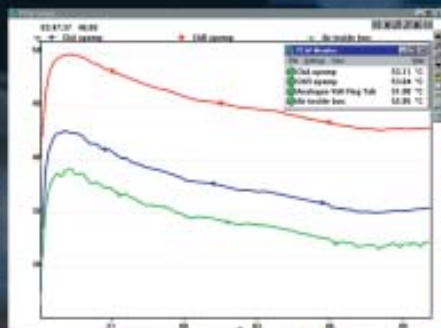
Thermocouple Data Logger

Software and Accessories

Spreadsheet data view



Use multiple views together



View up to 8 channels simultaneously



Recorder view



PicoLog

PicoLog is a powerful but flexible data acquisition program designed for collecting, analysing and displaying data over long or short periods of time. Data can be viewed both during and after data collection in spreadsheet or graphical format. If required, the data can also be easily exported to other applications.

- Collect up to 1 million samples
- Easy and intuitive to use
- Free upgrades and technical support
- International language versions

Multiple Data Views

PicoLog displays data in a number of ways, which can be activated as and when required, both during and after data collection:

- Recorder displays status and readings
- XY graph options for real time data display
- Data notes for adding text labels
- Spreadsheet view
- Player displays previously recorded data

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Software Drivers

For users who wish to write their own software or use our products with third party software, we provide free of charge, a range of software drivers and examples. Drivers are included for the following versions of Windows: 98SE/ME/2000/XP. Programming examples are supplied for C, Delphi and Visual Basic, LabVIEW, Agilent VEE 6.1 and Excel.

Thermocouples

Pico Technology offers both off the shelf and built to order thermocouples for use with our data logging products. The USB TC-08 is compatible with all popular thermocouples offering high accuracy without compromising acquisition speed.

Thermocouple type Vs temperature range

Thermocouple Type	Overall range °C	0.1°C Resolution	0.025°C Resolution
B	100 to 1800	150 to 1820	600 to 1820
E	-270 to 790	-270 to 910	-260 to 910
J	-210 to 1050	-210 to 1200	-210 to 1200
K	-270 to 1300	-270 to 1370	-250 to 1370
N	-260 to 1300	-260 to 1300	-230 to 1300
R	-50 to 1760	-50 to 1760	20 to 1760
S	-50 to 1760	-50 to 1760	20 to 1760
T	-270 to 400	-270 to 400	-250 to 400