USB TC-08 Specifications

USB TC-08 Thermocouple Data Logger general specifications	
Number of channels (single unit)	8
Maximum number of channels (using up to 20 TC-08s)	160
Conversion time	100 ms per thermocouple channel + 100 ms for cold junction compensation (CJC can be disabled if all channels used as voltage inputs)
Temperature accuracy	Sum of ±0.2% of reading and ±0.5 °C
Voltage accuracy	Sum of ±0.2% of reading and ±10 µV
Overvoltage protection	±30 V
Maximum common-mode voltage	±7.5 V
Input impedance	2 MΩ
Input range (voltage)	±70 mV
Resolution	20 bits
Noise-free resolution	16.25 bits
Thermocouple types supported	B, E, J, K, N, R, S, T
Input connectors	Miniature thermocouple

PC requirements	
Minimum	**Processor, Memory, Free disk space:** As required by the operating system **Operating system**: Microsoft Windows 7, 8 or 10, 32-bit and 64-bit versions; macOS 10.9 (Mavericks) or later, 64-bit only; Linux*, 64-bit only **Ports**: USB 1.1

* PicoLog 6 for Linux is distributed as an AppImage, so you can install it without superuser permissions: see appimage.org for further information. The software has been tested on Red Hat, OpenSUSE and Ubuntu.

Environmental

Environmental	
Operating temperature	0 to 50 °C
Operating temperature for stated accuracy	20 to 30 °C
Operating humidity	5 to 80 %RH non-condensing
Storage humidity	5 to 95 %RH non-condensing
Water resistance	Not water-resistant

Physical properties	
Dimensions	201 x 104 x 34 mm (7.91 x 4.09 x 1.34 in)

Software	
PicoLog for Windows	PicoLog data acquisition software can collect up to 1 million samples. Features include: **Multiple views** — view data as a graph, spreadsheet or text **Parameter scaling** — convert raw data into standard engineering units **Math functions** — use mathematical equations to calculate additional parameters **Alarm limits** — program an alert if a parameter goes out of a specified range **IP networking** — transfer measurements via a LAN or over the Internet **Operating systems supported** — Microsoft Windows XP (SP3) to Windows 10. Not Windows RT.
PicoLog languages	**Full support for**: English, Français, Deutsch **Menus and dialogs only for**: Italiano, Español, Svenska
Software Development Kit	Includes example code
Optional free software	Drivers for Linux and macOS

Documentation languages	
User's guide **Programmer's guide** **Installation guide**	English English English, Français, Deutsch, Italiano, Español, Svenska, Nederlandse, Dansk

General	
Additional hardware (supplied)	USB 2.0 cable, user manuals
PC interface	USB 1.1
Power requirements	Powered from USB port
Compliance	European EMC and LVD standards FCC Rules Part 15 Class A
Total satisfaction guarantee	In the event that this product does not fully meet your requirements you can return it for an exchange or refund. To claim, the product must be returned in good condition within 14 days.
Warranty	5 years

TC-08 resolution

Thermocouple type	Overall range °C	0.1 °C resolution	0.025 °C resolution
B	20 to 1820	150 to 1820	600 to 1820
E	–270 to 910	–270 to 910	–260 to 910
J	–210 to 1200	–210 to 1200	–210 to 1200
K	–270 to 1370	–270 to 1370	–250 to 1370
N	–270 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