

EL-USB-TC

K, J & T-Type Thermocouple Data Logger



- Compatible with K, J and T type thermocouples with miniature thermocouple plug connection
- Stores over 32,000 readings
- EasyLog software available as a free download
- Supplied with 1.5m K-type thermocouple probe with 0 to 200°C (32 to 392°F) measurement range
- Logging rates between 1 second and 12 hours
- Immediate and delayed logging start
- User-programmable alarm thresholds
- Status indication via red and green LEDs



This standalone data logger measures and stores more than 32,000 temperature readings from a J, K or T-type thermocouple at a resolution of 0.5°C (1°F). It comes supplied with a K-type thermocouple capable of measuring from 0 to +200°C (+32 to +392°F).

Your application will determine which probe is most suitable based on temperature range, accuracy, form and price. A wide variety of alternative thermocouples are available. Please call Lascar for vendor recommendations.

The user can easily set up the logger and view downloaded data by plugging the data logger into a PC's USB port and using the free EasyLog software. Data can then be graphed, printed and exported to other applications for detailed analysis.

The data logger is supplied with a lithium metal battery which typically gives 2 years' logging life.

SPECIFICATIONS

Probe measurement range	0 to 200°C (32 to 392°F) K-type (supplied) -200 to +1350°C (-328 to +2462°F) K-type -200 to +1190°C (-328 to +2174°F) J-type -200 to +390°C (-328 to +734°F) T-type
Internal resolution	0.5°C (1°F)
Accuracy (overall error)	±1°C (±2°F) (data logger only - thermocouple error not included)
Logging rate	User selectable between 1 second & 12 hours
Operating temperature range	-10 to +40°C (+14 to +104°F) (data logger only)
Battery Life	2 years (at 25°C and 1 minute logging rate)
Readings	32,510
Dimensions	118 x 27 x 27mm (4.64 x 1.06 x 1.06")

ACCESSORIES

BAT 3V6 1/2AA	Replacement battery
EL-P-TC-K	Replacement K-type thermocouple probe

INCLUDED IN THE BOX

BAT 3V6 1/2AA	Battery
EL-P-TC-K	K-type thermocouple probe
EL-USB WALL BRACKET	Mounting Bracket



For pricing or any further information, please contact Omni Instruments Ltd.

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LED STATUS INDICATION

EL-USB-TC features two LEDs:

- The first LED flashes **red** to indicate that the EL-USB-TC is in an alarm condition. It will flash when the logged temperature has exceeded a Low or High alarm level.
- The second LED flashes **green** to indicate that the EL-USB-TC is not in an alarm condition.

Using EasyLog software it is possible to set the alarm to remain active even if the reading has returned to normal, in which case the alarm LED will continue to flash red. This 'Hold' feature in the software ensures the user is notified that at some point an alarm level has been exceeded, without needing to download the data.

Using the control software it is possible to set a delayed alarm. In this mode the logger has to see multiple consecutive alarms before being activated.

Hold is enabled by default, and can be turned off via the control software. The red LED will then only flash whilst the logger is in an alarm condition. When the temperature returns to normal, the green LED will flash.

	Green single flash (every 10 seconds) The data logger is currently logging. No alarm
	Green single flash (every 20 seconds) The data logger is currently logging, however the battery is running low. No alarm
	Green single flash (every 30 seconds) The data logger is not currently logging, but is primed to start at a later date and time (delayed start)
	Green double flash (every 20 seconds) The data logger is full and has stopped logging. No alarm
	Red single flash (every 10 seconds) The data logger is currently logging. Low alarm
	Red single flash (every 20 seconds) The data logger is currently logging, however the battery is running low. Low alarm
	Red double flash (every 10 seconds) The data logger is currently logging High alarm
	Red double flash (every 20 seconds) The data logger is currently logging, however the battery is running low. High alarm
	Red & Green single flash alternately (every 20 seconds) The data logger is full and has stopped logging. High or low alarm
	No LEDs flash The data logger is stopped, the battery is empty or there is no battery

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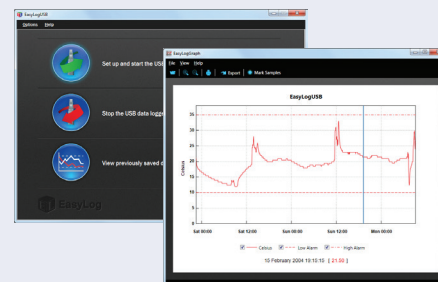


EASYLOG SOFTWARE

Lascar's EasyLog control software is available as a free download from www.easylogusb.com. Easy to install and use, the control software is compatible with 32-bit and 64-bit versions of Windows 7, 8 & 10. The software is used to set up the logger, download, graph and annotate data or export in Excel, PDF and jpeg formats.

The software allows the following parameters to be configured:

- Logger name
- Measurement parameter (°C or °F)
- Logging rate (user selectable between 1 second and 12 hours)
- High and low alarms
- Immediate and delayed logging start



BATTERY INFORMATION

Replacement

We recommend that you replace the battery annually, or prior to logging critical data. Only use 3.6V ½AA lithium metal batteries. The data logger does not lose its stored readings when the battery is discharged or replaced; however, the data logging process will stop and will not resume until the battery is replaced and the logger restarted by EasyLog software.

Before replacing the battery, remove the data logger from the PC. Please note that leaving the data logger plugged into the USB port for extended periods will cause some of the battery capacity to be lost.

Passivation

If left unused for extended periods of time lithium metal batteries, including those used in the EasyLog range of data loggers, naturally form a non-conductive internal layer preventing them from self-discharge and effectively increasing their shelf life. When first installed in the data logger, this may cause a momentary drop in the battery voltage (the Transient Minimum Voltage) as the internal layer is broken down, resulting in the data logger resetting. Inserting the batteries in the data logger and leaving it connected to a PC for about 30 seconds will remove this layer. After this, remove and re-install the batteries to reset the data logger. Overall battery life will not be affected.

WARNING

Handle lithium metal batteries carefully, observe warnings on battery casing. Dispose of in accordance with local regulations.

CALIBRATION CERTIFICATES NOW AVAILABLE

Omni Instruments offers a Traceable Calibration Certificate Service on Temperature Data Loggers. Using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards.



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