EL-USB-TPX+

High Accuracy Temperature Probe Data Logger with Advanced Display, EasyLog Cloud Compatible



- Temperature measurement range-40 to +125°C (-40 to +257°F)
- High accuracy calibratable probe with 3m cable (calibration certificate can be ordered separately)
- No need to remove from service for recalibration, just replace the probe
- Configurable alarms with on-board sounder
- Display shows daily audit marks, time in alarm and days since alarm
- Stores over 1,000,000 readings
- Use with a PC or Mac, no software to install – configure using your normal web browser
- Data can be uploaded to the EasyLog Cloud

The EL-USB-TPX+ measures and records the temperature of the environment in which the probe is situated. Configuration is simple, with no software to install on your PC or Mac – just connect the logger with a USB cable, and use your standard web browser to configure the device for logging. You don't even need internet access to set up and use the EL-USB-TPX+, it really couldn't be easier.

The logging interval can be set between 1 minute and 24 hours, with immediate, delayed, triggered or push-to-start logging. Alarms are fully user configurable, with functionality including high and low alarms, a delay before alarm triggering, and an alarm hold option, which continues showing the alarm condition even if the reading returns to an acceptable level.

The display shows current, maximum and minimum readings, as well as two daily audit check-boxes, the days since the last alarm and the cumulative time in alarm. Alarm status and battery level are also shown.

Once logging is complete, re-connect to your computer and use your browser to view, analyse and save your data. You can also choose to upload your data to an EasyLog Cloud account, making the data accessible online for powerful graphing, analysis and report generation.

The EL-USB-TPX+ has an internal battery that can be recharged using a USB charger, or the device can be permanently powered in the same way. Typical battery life is 6 months, and a wall mounting bracket is supplied with the device.

SPECIFICATIONS

Model	EL-USB-TPX+
Intended use	Temperature data logging and alerting
Temperature measurement range	-40 to +125°C (-40 to +257°F)
Temperature measurement accuracy typical [1]	±0.2°C (-15 to +80°C) ±0.4°F (+5 to +176°F)
Temperature measurement accuracy maximum [1]	±0.5°C (-40 to +125°C) ±0.9°F (-40 to +257°F)
Temperature measurement resolution	0.01°C (0.02°F)
Temperature display resolution	0.01
Logging period (user selectable)	1 minute to 24 hours
Start modes	Immediate, push to start, delayed start, temperature triggered
Internal memory capacity	Over 1,000,000 readings
Sounder	Integrated alarm sounder
Operating environment (logger) [2]	-20 to +60°C, 5 to 85%RH, 75 to 106kPa
Transportation environment	-20 to +60°C, 5 to 85%RH, 75 to 106kPa
Ingress Protection	Logger: IP4X, Probe: IP67
Pollution degree of the intended use environment	2
Battery life [3]	6 months
Internal battery	3.7V, 1750mAh, 6.475Wh, Li-ion
USB supply voltage	4.5 to 5.5VDC, 500mA
Dimensions (logger)	80 x 68 x 23mm (3.15 x 2.68 x 0.91")
Net weight	134g
Recommended wall fixing screws	4 x 20mm, countersunk head, cross recessed, stainless steel

[1] Note that accuracy may be affected if using a non-approved power supply to charge or permanently power this device.
[2] Operating temperature for the logger is limited to 0 to +45°C while the device is charging
[3] Please note the battery life statement later in this document

ACCESSORIES

EL-P-TPX+	Replacement high-accuracy calibratable thermistor probe
EL-P-VACX	High-accuracy glycol thermistor probe
PSU USB-UK	USB mains power adaptor for UK
PSU-5VDC-USB-USA	USB mains power adaptor for USA
PSU USB-EU	USB mains power adaptor for Europe

INCLUDED IN THE BOX

EL-USB-TPX+	High-accuracy temperature probe data logger with advanced display
EL-P-TPX+	High-accuracy calibratable thermistor probe
EL-WIFI WALL BRACKET	Wall mounting bracket
CABLE USBA-MICRO B	USB cable type A to micro B

CALIBRATION CERTIFICATES NOW AVAILABLE

Lascar now offers a traceable calibration certificate service. Using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards. For more information please see **www.lascarelectronics.com**.

EL-USB-TPX+

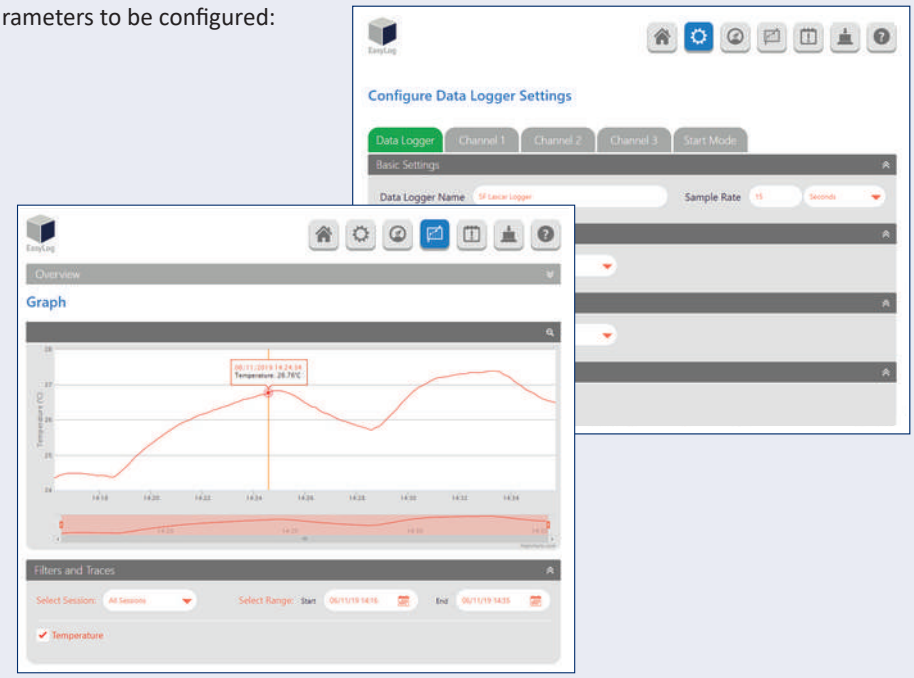
High Accuracy Temperature Probe Data Logger with Advanced Display, EasyLog Cloud Compatible

NO SOFTWARE TO INSTALL

All the software needed to configure your EL-USB-TPX+, and view and analyse the data it logs, is contained within the product itself. Just connect the logger to your PC or Mac with a USB cable, open any web browser and in the address bar type “http://EasyLog.local”. No internet connection is needed, and you can save this address in your bookmarks or favourites as normal.

The interface is easy to use and allows the following parameters to be configured:

- Logger and channel names
- Measurement units
- Logging rate and start mode
- Up to 16 separate alarms (high/low/pre-alarm/cumulative) with thresholds, delay and hold.



Once the logger is running, you can plug it back into your computer and see the latest data, device status and the event log. You can also choose to stop the logger and change the configuration, or just let it continue logging.

EASYLOG CLOUD DATA STORAGE

Store your data securely, and make it available from any internet-connected PC or mobile device, with EasyLog Cloud. The EL-USB-TPX+ can upload logged data to the Cloud from your PC or Mac, making sharing and analysis easier than ever. For more information and to set up an account on EasyLog Cloud, visit www.easylogcloud.com.



Battery Life and Power Supply

The battery can be recharged (unit must be between 0 - 40°C) via a PC, a USB +5V wall adapter, or a portable USB battery pack using the USB lead provided. It can also be permanently powered by a USB wall adapter or USB battery pack. Battery life is dependent on the logging period, operating temperature and the frequency of audible alerts.