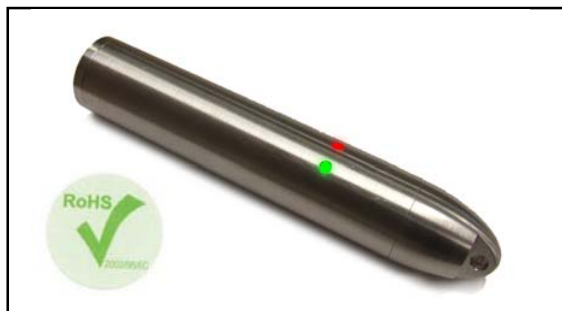# EL-USB-1-PRO

The EL-USB-1-PRO data logger measures and stores up to 32,750 temperature readings over the -40 to +125°C (-40 to +257°F) measurement ranges. The logger is housed in an stainless steel case, to protect the logger from corrosion, impact and moisture. A long life lithium battery is included, which allows logging for up to 2 years.

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

FEATURES

- -40 to +125°C (-40 to +257°F) measurement range
- Stainless Steel case
- Environmental protection to IP67
- Status indication LEDs
- USB interface for set-up and data download
- User-programmable alarm thresholds
- Immediate and delayed logging
- Supplied complete with high capacity lithium battery and Windows compatible software.

WINDOWS CONTROL SOFTWARE

Easy to install and use, the control software runs under Windows 2000, XP (Home and Professional Editions) and Vista (32-bit). It allows the user to set up and download data from any EL-USB product. The latest version of the control software may be downloaded from *www.lascarelectronics.com*

DATA LOGGER SETUP VARIABLES

- Logger name
- °C, °F
- Logging rate (1s, 10s, 1m, 5m, 30m, 1hr, 6hr, 12hr)
- High and low alarms
- Immediate and delayed logging
- Data rollover (Allows unlimited logging periods by overwriting the oldest data when the memory is full)

ORDERING INFORMATION

	Stock Number
Standard Data Logger (Data Logger, battery pack and Software on CD)	**EL-USB-1-PRO**
Replacement Battery Pack	**BATT 1-PRO**

SPECIFICATIONS

Specification	Min.	Typ.	Max.	Unit
Measurement range	-40 (-40)		+125 (+257)	°C (°F)
Accuracy (overall error)		±0.2 (±0.4) †	±0.5 (±1)	°C (°F)
Internal resolution		0.1 (0.2)		°C (°F)
Logging rate	every 1s		every 12hr	-
Operating temperature range †	-40 (-40)		+125 (+257)	°C (°F)
2/3AA 3.6V Lithium Battery Life	1*	2**	3	Year

† Between 0°C and 40°C
* 10 second logging rate @ -20°C
** 10 second logging rate @ +80°C

Specifications liable to change without prior warning   EL-USB-1-PRO   Issue Beta 3   09/2008   N.J-H   Applies to EL-USB-1-PRO

LED FLASHING INDICATORS

The EL-USB-1-PRO features two high intensity LEDs, located in the main body of the logger. During operation, the LEDs flash to indicate the logger and alarm status, as per below:

(Single Flash every 10 seconds)	Logging, no alarm
(Double flash every 10 seconds)	Delayed start
(Triple flash every 10 seconds)	Logger full, no alarm
(Single Flash every 10 seconds)	Logging, low alarm
(Double flash every 10 seconds)	Logging, high alarm
(Triple flash every 10 seconds)	Logger full, alarm
(Single Flash every 30 seconds)	Low battery

DIMENSIONS   All Dimensions in mm

BATTERY REPLACEMENT

We recommend that you replace the battery every 18 months, or prior to logging critical data.
The EL-USB-1-PRO does not lose its stored readings when the battery is discharged or when the battery is replaced; the data logging process will however be stopped and cannot be re-started until the battery has been replaced and the logged data has been downloaded to PC.
Only use an EL-USB-1-PRO battery back supplied by Lascar, which is rated for use in high temperatures and has the correct battery terminals. Using non-Lascar batteries may result in fire or explosion at high temperatures.

Note:
Leaving the EL-USB-1-PRO plugged into the USB port for longer than necessary will cause some of the battery capacity to be lost.