

EL-USB-1-PRO

Temperature Data Logger with Extended Range

ORDERING INFORMATION

Standard Data Logger (Data Logger, Software on CD, Battery) EL-USB-1-PRO

Replacement Battery BAT 3V6 2/3AA H TEMP

FEATURES

- -40 to +125°C (-40 to +257°F) measurement range
- Stainless Steel (316 grade) case
- Environmental protection to IP67
- USB interface for set-up and data download
- Immediate and delayed start logging
- Supplied with replaceable high capacity lithium battery and Windows control software.

This standalone data logger measures and stores up to 32,510 temperature readings over a -40 to +125°C (-40 to +257°F) measurement range. The stainless steel 316 assembly provides protection from corrosion, impact and water ingress to IP67/NEMA 4X. The unit is powered by a 2/3AA 3.6V lithium battery which allows logging for up to 3 years. Setup and downloading is completed by plugging the data logger into a PC's USB port and running the purpose designed software under Windows 2000, XP or Vista (32-bit). Downloaded data can then be graphed, printed and exported to other applications.



Specifications	Minimum	Typical	Maximum	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 1 s		every 12 hr	-
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

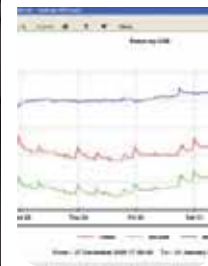
EL-WIN-USB (CONTROL SOFTWARE)

Lascar's EasyLog USB control software is supplied free of charge with each data logger. Easy to install and use, the control software runs under Windows 2000, XP (Home and Professional Editions) & Vista (32-bit). The software is used to set-up the data logger as well as download, graph and export data to Excel.

The software allows the following parameters to be configured:

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

The latest version of the control software may be downloaded free of charge from www.lascarelectronics.com

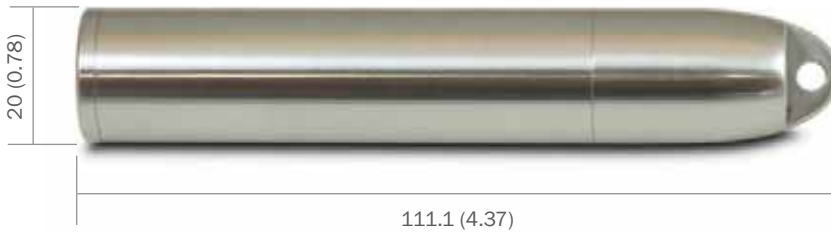


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DIMENSIONS

All dimensions in mm (inches)



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; however, the data logging process will be stopped and cannot be re-started until the battery has been replaced and the logged data has been downloaded to a 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.

WARNING

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

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THE EASYLOG USB RANGE

Each EL-USB data logger features the direct-to-USB connection and easy-to-use functionality that the range is known for. The range comprises 14 data loggers as detailed in the following table:

Part No	Function	Range	Accuracy (overall error)		Readings	Battery	Battery Life*
			Typ.	Max.			
EL-USB-1	Temperature	-35 to +80 °C (-31 to +176 °F)	±1°C (±2°F)		16,382	3.6V ½AA	1 year
EL-USB-1-PRO	High temperature	-40 to +125 °C (-40 to +257 °F)	±0.2°C (±0.4°F)	±0.5°C (±1°F)	32,510	3.6V ¾AA	3 years
EL-USB-2	Temperature, humidity & dew point	-35 to +80 °C (-31 to +176 °F) 0 to 100%RH	±0.5°C (±1°F)	±2°C (±4°F)	16,382	3.6V ½AA	1 year
			±3%RH	±6.0%RH	16,382		
EL-USB-2+	Increased accuracy temperature, humidity & dew point	-35 to +80 °C (-31 to +176 °F) 0 to 100%RH	±0.3°C (±0.6°F)	±1.5°C (±3°F)	16,382	3.6V ½AA	1 year
			±2.0%RH	±4.0%RH	16,382		
EL-USB-2-LCD	Temperature, humidity & dew point with LCD	-35 to +80 °C (-31 to +176 °F) 0 to 100%RH	±0.5°C (±1°F)	±2°C (±4°F)	16,379	3.6V ½AA	1 year
			±3.0%RH	±6.0%RH	16,379		
EL-USB-2-LCD+	Increased accuracy temperature, humidity & dew point with LCD	-35 to +80 °C (-31 to +176 °F) 0 to 100%RH	±0.3°C (±0.6°F)	±1.5°C (±3°F)	16,379	3.6V ½AA	1 year
			±2.0%RH	±4.0%RH	16,379		
EL-USB-3	Voltage	0 to 30V d.c.	±1%		32,510	3.6V ½AA	1 year
EL-USB-4	Current loop	4 to 20mA	±1%		32,510	3.6V ½AA	1 year
EL-USB-TC	Thermocouple (J, K and T-type) K-type probe included	-200 to +1350°C (-328 to +2462°F) (K-type)	±1°C (±2°F)		32,510	3.6V ½AA	6 months
		-200 to +1190°C (-328 to +2174°F) (J-type)					
		-200 to +390°C (-328 to +734°F) (T-type)					
EL-USB-TC-LCD	Thermocouple with LCD (J, K and T-type) K-type probe included	-200 to +1350°C (-328 to +2462°F) (K-type)	±1°C (±2°F)		32,510	3.6V ½AA	6 months
		-200 to +1190°C (-328 to +2174°F) (J-type)					
		-200 to +390°C (-328 to +734°F) (T-type)					
EL-USB-CO	Carbon monoxide	0 to 1000ppm NOT A LIFE SAVING DEVICE	±6ppm		32,510	3.6V ½AA	3 months
EL-USB-CO300	Carbon monoxide	0 to 300ppm NOT A LIFE SAVING DEVICE	±4ppm		32,510	3.6V ½AA	3 months
EL-USB-LITE	Low cost temperature	-10 °C to +50 °C (+14 to +122 °F)	±1°C (±2°F)		4,080	CR1620 Lithium coin cell	1 month
EL-USB-RT	Real-time temperature & humidity monitor	-20 to +70 °C (-4 to +158 °F)	±1.5°C (±3°F)		7 days	N/A	N/A
			±4.5%RH				

*Depending on logging rate, ambient temperature, and use of alarm LED

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