EL-USB-1

This data logger measures and stores up to 16,382 temperature readings over a \cdot 35 to $+80^{\circ}$ C (-31 to $+176^{\circ}$ F) range. The user can easily set up the logging rate and start-time, and download the stored data by plugging the module straight into a PC's USB port and running the purpose designed software under Windows 98, 2000, XP and Vista (32-bit). Data can then be graphed, printed and exported to other applications. The data logger is supplied complete with a long-life lithium battery, which will last for at least 1 year. Correct functioning of the unit is indicated by a flashing red, green and orange LEDs. The data logger is protected against moisture to IP 67 standard when the protective cap is fitted.

FEATURES

- -35 to $+80^{\circ}$ C (-31 to $+176^{\circ}$ F) Measurement Range
- USB Interface for Set-up and Data Download
- 2 User-Programmable Alarm Thresholds
- Bright Red, Green and Orange LED Indication
- Replaceable Internal Lithium Battery
- IP 67 Protection

WINDOWS CONTROL SOFTWARE

Easy to install and use, the control software runs under Windows 98, 2000, XP (Home and Professional Editions)* and Vista (32-bit). It allows the user to set up and download any EL-USB-1. The latest version of the control software may be downloaded from *www.lascarelectronics.com*.

DATA LOGGER SET-UPS

- Logger Name
- °C, °F
- Logging Rate (10s, 1m, 5m, 30m, 1hr, 6hr, 12hr)
- High and Low Alarms
- Start Date and Start Time



ORDERING INFORMATION

Standard Data Logger (Data Logger, Software on CD, Battery)	Stock Number EL-USB-1
Replacement Battery	BAT 3V6

SPECIFICATIONS

Specification	Min.	Тур.	Max.	Unit
Measurement range	-35 (-31)		+80 (176)	°C (°F)
Internal resolution		0.5 (1)		°C (°F)
Accuracy (overall error)		<u>+1 (+2)</u>		°C (°F)
Logging rate	every 10s		every 12hr	-
Operating temperature range	-35 (-31)		+80 (176)	°C (°F)
1/2AA 3.6V Lithium Battery Life	1*			Year

* @ 25°C and 1m logging rate

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.co.uk	E-mail: us-sales@lascarelectronics.com				E- mail:purchasing@lascar.com.hk	
	FAX: +1 (814) 838 8141				FAX: +852 2389 6535	
4567	TEL: +1 (814) 835 0621			TEL: +852 2389 6502		
	USA				HONG KONG	
	PA 16506,				KWUN TONG, KOWLOON,	
	ERIE,				111-113 HOW MING STREET,	
	3750 WEST 26th STREET,			ı	UNIT NOS. 6-8, 19/F FUTURA PLAZA,	
ICS LTD.	LASCAR ELECTRONICS INC.				LASCAR ELECTRONICS (HK) LIMITED	
2	IICS LTD. , 4567 4616 .co.uk	37), 4567 Ti 4616 F/	3750 WEST 26th STREET ERIE, PA 16506, USA 4567 TEL: +1 (814) 835 0621 4616 FAX: +1 (814) 838 8141	3750 WEST 26th STREET, ERIE, PA 16506, USA 4567 TEL: +1 (814) 835 0621 4616 FAX: +1 (814) 838 8141	3750 WEST 26th STREET, ERIE, PA 16506, USA 4567 TEL: +1 (814) 835 0621 4616 FAX: +1 (814) 838 8141	3750 WEST 26th STREET, ERIE, PA 16506, USA 4567 TEL: +1 (814) 835 0621 4616 FAX: +1 (814) 838 8141

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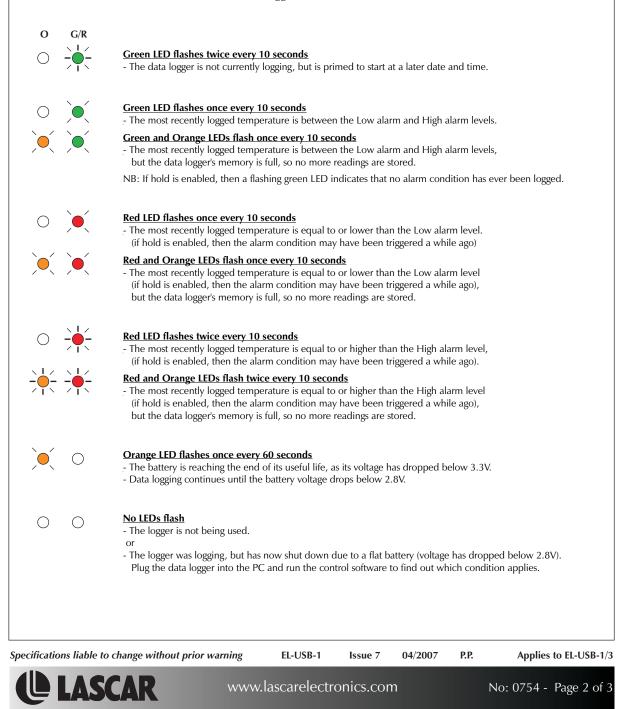
LED FLASHING MODES

EL-USB-1 features 2 LEDs.

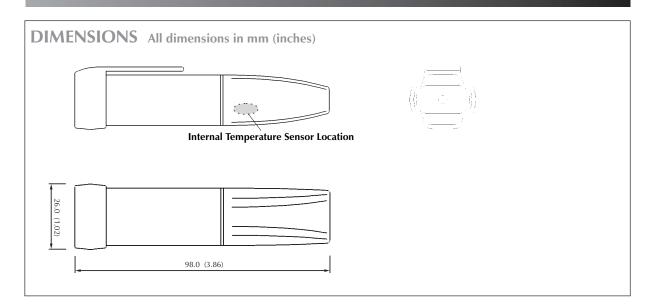
- The first LED flashes orange (O) to indicate a problem condition on the EL-USB-1.
- The second LED flashes green or red (G/R) to indicate alarm level status.
- It will flash red when the logged temperature has exceeded a Low or High alarm level.

By default hold is disabled. In this mode the red LED will no longer continue to flash after the logged temperature has returned to normal from an alarm condition.

Hold can be turned on via the control software. In this mode the red LED that indicates an alarm condition will continue to flash, even after the logged temperature has returned to normal. The red LED will effectively have latched into its alarm condition. This feature ensures that the user is notified that an alarm level has been exceeded, without the need to download the data from the logger.



EL-USB-1



BATTERY REPLACEMENT

We recommend that you replace the battery every 12 months, or prior to logging critical data.

The EL-USB-1 does not lose its stored readings when the battery is flat 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 Sonnenschein (SL-750/S) or Tekcell (SB-AA02) 3.6V 1/2AA lithium batteries. Check with your supplier that the battery you are ordering is 'press fit' and is not fitted with solder tags. Before replacing the battery, remove the EL-USB-1 from the PC.

Note:

Leaving the EL-USB-1 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.

Specifications liable to change without prior warning

EL-USB-1 Iss

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