This data logger measures and stores up to 16,382 temperature readings over a -35 to +80°C (-31 to +176°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 or XP. 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 and XP (Home and Professional Editions)*. 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*.

ORDERING INFORMATION

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

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

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

LASCAR ELECTRONICS LTD MODULE HOUSE WHITEPARISH WILTSHIRE SP5 2SJ UK TEL: +44 (1794) 884567 FAX: +44 (1794) 884616 E-mail: sales@lascar.co.uk LASCAR ELECTRONICS INC. 3750 West 26th Street Erie PA 16506 USA TEL: +1 (814) 835 0621 FAX: +1 (814) 838 8141 E-mail: us-sales@lascarelectronics.com LASCAR ELECTRONICS (HK) LIMITED FLAT C, 5/FL, LUCKY FTY, BLDG. 63-65 HUNG TO ROAD KWUN TONG KOWLOON HONG KONG TEL: +852 2797 3219 FAX: +852 2343 6187 E-mail: purchasing@lascar.com.hk

Specifications liable to change without prior warning



www.lascarelectronics.com

FI-USB-1

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M.C.

(603) 746-5524

Applies to EL-USB-1/3



EL-USB-1

LED FLASHING MODES

EL-USB-1 features 2 LEDs.

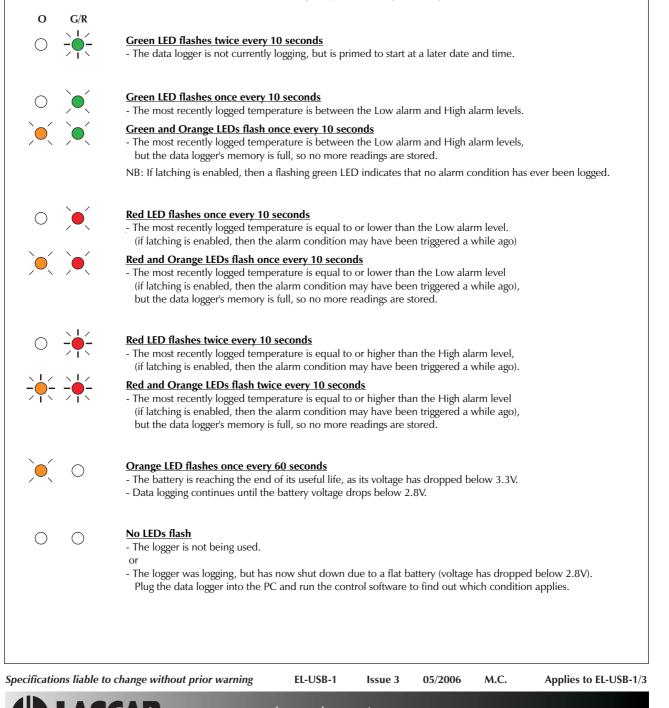
- The first LED flashes orange (O) to indicate a problem condition on the EL-USB-1.
- The second LED flashes green or red (G/R) to indicate alarm level status.

It will flash red when the logged temperature has exceeded a Low or High alarm level.

By default latching is enabled, so the red LED 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.

Latching can be turned on via the control software. The red LED will then no longer continue to flash after the logged temperature has returned to normal. Instead, the green LED will then flash.

The LEDs on EL-USB-1 will flash in one of the following ways, assuming latching is turned off.



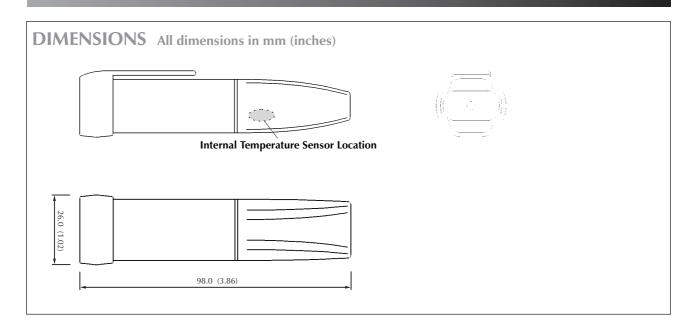


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EL-USB-1



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 3.6V 1/2AA lithium batteries (SL-750/S). 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.

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EL-USB-1

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