

# EL-USB-LITE

## Low Cost USB Temperature Data Logger

| ORDERING INFORMATION  |             |
|---|-------------|
| Standard Data Logger (Data Logger, Software on CD, Battery) | EL-USB-LITE |
| Replacement Battery Pack                                    | BAT-3VX5    |

### FEATURES

- -10°C to +50°C (+14 to +122°F) measurement range
- 30 minute sample rate
- USB interface for set-up and data download
- User-programmable alarm thresholds
- Status indication via red and green LEDs
- Supplied with replaceable internal lithium battery and Windows control software



This low cost data logger measures and stores up to 4,080 temperature readings over a -10 to +50°C (+14 to +122°F) measurement range with a fixed 30 minute sample rate and a battery life of 1 month continuous use.

Press the button and a red/green LED indicates whether a preset alarm level has been recorded. The data logger is configured and the stored data downloaded by plugging the data logger into a PC's USB port and running the purpose designed control software under Windows 2000, XP, Vista or 7. The downloaded data can be graphed, printed and exported to other applications. The latest version of the control software may be downloaded free of charge from: [www.lascarelectronics.com](http://www.lascarelectronics.com). A battery is fitted; to begin using the data logger, remove the tab.

| Specifications                          | Minimum          | Typical | Maximum     | Unit    |
|---|------------------|---------|-------------|---------|
| Measurement range                       | -10 (+14)        |         | +50 (+122)  | °C (°F) |
| Internal resolution                     |                  | 1(2)    |             | °C (°F) |
| Accuracy (overall error)                |                  |         | ±2.5 (±4.5) | °C (°F) |
| Logging rate                            | every 30 minutes |         |             |         |
| Operating temperature range             | -10 (+14)        |         | +50 (+122)  | °C (°F) |
| Battery Life (CR1620 Lithium coin cell) | 1                |         |             | Month   |

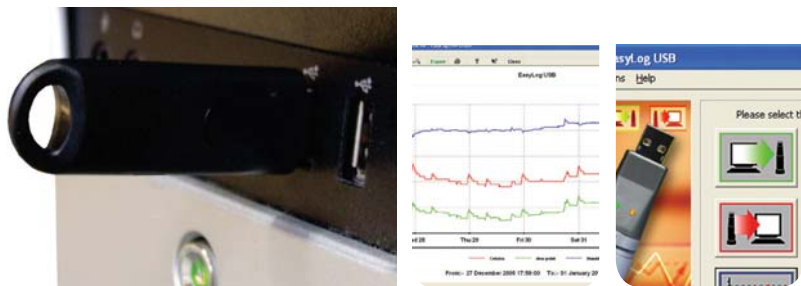
### EL-WIN-USB (CONTROL SOFTWARE)

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, Vista & 7. 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
- High and low alarm levels
- Start time and start date

The latest version of the control software may be downloaded free of charge from [www.lascarelectronics.com](http://www.lascarelectronics.com)



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### LED FLASHING MODES

EL-USB-LITE features a bi-colour LED to indicate the status of the data logger. To save power, the status indication only operates when the push button is pressed for a short while.



Red/Green LED

|   |   |
|---|---|
|  | <b>Green single flash</b><br>The data logger is currently logging. No alarm on the channel. |
|  | <b>Red single flash</b><br>The data logger is currently logging. Low alarm on the channel.  |
|  | <b>Red double flash</b><br>The data logger is currently logging. High alarm on the channel. |

### DIMENSIONS

All dimensions in mm (inches)



### BATTERY REPLACEMENT

We recommend that you replace the battery every 1 month, or prior to logging critical data. The EL-USB-LITE 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.

For maximum logging life, only use Maxell or Panasonic CR1620 lithium batteries. Before replacing the battery, remove the EL-USB-LITE from the PC.

**Note:**

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

### WARNING

Handle lithium batteries carefully. 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-1-RCG  | Temperature with rechargeable battery                         | -20 to +60 °C (-4 to +140 °F)  | ±1°C (±2°F)                |                          | 32,510   | Lithium Ion                 | 1 month (rechargeable) |
| EL-USB-2      | Temperature, humidity & dew point                             | -35 to +80 °C (-31 to +176 °F)<br>0 to 100%RH  | ±0.5°C (±1°F)<br>±3%RH     | ±2°C (±4°F)<br>±6.0%RH   | 16,382   | 3.6V ½AA                    | 1 year                 |
| EL-USB-2+     | Increased accuracy temperature, humidity & dew point          | -35 to +80 °C (-31 to +176 °F)<br>0 to 100%RH  | ±0.3°C (±0.6°F)<br>±2.0%RH | ±1.5°C (±3°F)<br>±4.0%RH | 16,382   | 3.6V ½AA                    | 1 year                 |
| EL-USB-2-LCD  | Temperature, humidity & dew point with LCD                    | -35 to +80 °C (-31 to +176 °F)<br>0 to 100%RH  | ±0.5°C (±1°F)<br>±3.0%RH   | ±2°C (±4°F)<br>±6.0%RH   | 16,379   | 3.6V ½AA                    | 1 year                 |
| EL-USB-2-LCD+ | Increased accuracy temperature, humidity & dew point with LCD | -35 to +80 °C (-31 to +176 °F)<br>0 to 100%RH  | ±0.3°C (±0.6°F)<br>±2.0%RH | ±1.5°C (±3°F)<br>±4.0%RH | 16,379   | 3.6V ½AA                    | 1 year                 |
| 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-5      | Counter, Event & State  | N/A  |                            | ±3 secs/24 hrs           | 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)<br>-200 to +1190°C (-328 to +2174°F) (J-type)<br>-200 to +390°C (-328 to +734°F) (T-type) | ±1°C (±2°F)                |                          | 32,510   | 3.6V ½AA                    | 6 months               |
| 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)<br>-200 to +1190°C (-328 to +2174°F) (J-type)<br>-200 to +390°C (-328 to +734°F) (T-type) | ±1°C (±2°F)                |                          | 32,510   | 3.6V ½AA                    | 6 months               |
| EL-USB-CO     | Carbon monoxide   | 0 to 1000ppm <b>NOT A LIFE SAVING DEVICE</b>   | ±6ppm                      |                          | 32,510   | 3.6V ½AA                    | 3 months               |
| EL-USB-CO300  | Carbon monoxide   | 0 to 300ppm <b>NOT A LIFE SAVING DEVICE</b>  | ±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<br>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)<br>±4.5%RH   |                          | 7 days   | N/A                         | N/A                    |

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

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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