# Temperature Data Logger with USB Interface

#### **FEATURES**

- -35 to +80°C (-31 to +176°F) measurement range
- USB interface for set-up and data download
- · User-programmable alarm thresholds
- · Status indication via red, green and orange LEDs
- Supplied with replaceable internal lithium battery and Windows control software
- Environmental protection to IP67

This standalone data logger measures and stores up to 16,382 temperature readings over a -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 data logger into a PC's



ORDERING INFORMATION

EL-USB-1

BAT 3V6 1/2AA

Standard Data Logger

(Data Logger, Software on

Replacement Battery

CD, Battery)

USB port and running the purpose designed software under Windows 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 can typically allow logging for 1 year. Correct functioning of the unit is indicated by flashing red, green and orange LEDs. The data logger is protected against moisture to IP67 standard when the protective cap is fitted.

| Specifications                  | Minimum   | Typical | Maximum    | Unit   |
|---------------------------------|-----------|---------|------------|--------|
| Measurement range               | -35 (31)  |         | +80 (+176) | °C(°F) |
| Internal resolution             |           | 0.5 (1) |            | °C(°F) |
| Accuracy (overall error)        |           | ±1 (±2) |            | °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   |

<sup>\*</sup> At 25  $^{\circ}\text{C}$  and 1 m logging rate.

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

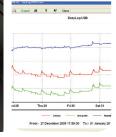
EasyLog USB control software is supplied free of charge with each data logger. Easy to install and use, the control software runs under Windows 2000, XP, Vista & 7. The software is used to set-up the data logger as well as download, graph and export data to Excel.

The software allows the following parameters to be configured:

- Logger name (up to 16 characters)
- °C or °F
- Logging Rate (10s, 1m, 5m, 30m, 1hr, 6hr, 12hr)
- High and low alarm levels
- Start date and time

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









www.corintech.com



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#### LED FLASHING MODES

#### EL-USB-1 features 2 LEDs.

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

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.







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#### **DIMENSIONS**



#### **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 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 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.

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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### 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 of the following data loggers:

| Part No       | Function  | Range  | Accuracy (overall error)   |                          | Readings    | Batterv                     | Battery Life*          |
|---------------|---|--|----------------------------|--------------------------|-------------|-----------------------------|------------------------|
|               |   |  | Тур.                       | Max.                     | r tocaurigo | 20000                       | Dattory Line           |
| 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-LCD  | Temperature with LCD  | -35 to +80°C (-31 to +176°F)   | ±0.5°C (±1°F)              | ±1.5°C (±3°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 ⅔AA                    | 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)   | ±0.5°C (±1°F)              | ±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) 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 tem-<br>perature, humidity & dew<br>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,<br>K and T-type) K-type probe<br>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-C0300  | 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<br>Lithium coin cell | 1 month                |

<sup>\*</sup>Depending on logging rate, ambient temperature, and use of alarm LED

Ashford Mill Station Road, Fordingbridge Hampshire SP6 1DZ

T +44 (0) 1425 655655 E info@corintech.com

8th Floor, China Aerospace Centre 143 Hoi Bun Road Kwun Tong, Kowloon HONG KONG

T +852 2797 3763 E info@corintech.com.hk



