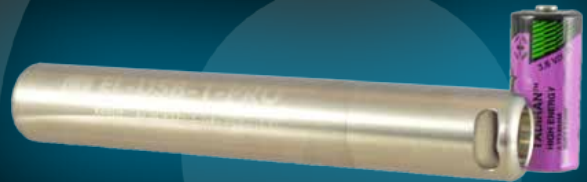


# EL-USB-1-PRO

## TEMPERATURE DATA LOGGER WITH EXTENDED RANGE

This standalone data logger measures and stores more than 32,000 temperature readings over a -40 to +125°C (-40 to +257°F) range with a resolution of 0.1°C (0.2°F).

The stainless steel 316 assembly provides protection from corrosion, impact and water ingress to IP67/NEMA 4X.



Temperature



USB



Customisable alarms



Download audit-ready reports

The user can easily set up the logger and view downloaded data by plugging the data logger into a PC's USB port and using the free EasyLog software. Data can then be graphed, printed and exported to other applications for detailed analysis. The data logger is supplied with a lithium metal battery which gives two year's logging life.

### Features

- -40 to +125°C (-40 to +257°F) measurement range
- Stores over 32,000 readings
- EasyLog software available as a free download
- Stainless steel (316 grade) case
- Logging rates between 1 second and 12 hours
- Immediate and delayed logging start
- User-programmable alarm thresholds
- Environmental protection to IP67

### EL-WIN-USB

IMC's EasyLog control software is supplied free of charge with each data logger. Easy to install and use, the control software is compatible with 32-bit and 64-bit versions of Windows 7, 8 & 10. The software is used to set up the logger, download, graph and annotate data or export in Excel, PDF and jpeg formats. The software allows the following parameters to be configured:

- Logger name
- Measurement parameter (°C or °F)
- Logging rate (user selectable between 10 seconds and 12 hours)
- High and low alarms
- Immediate and delayed logging start



The latest version of the control software may be downloaded free of charge



## SPECIFICATIONS

### Temperature

Measurement range	-40 to +125°C (-40 to +257°F)
Internal resolution	0.1°C (0.2°F)
Accuracy (overall error)	±0.2°C (±0.4°F) (see page 3)
Logging rate	User selectable between 1 second & 12 hours
Operating temperature range	-40 to +125°C (-40 to +257°F)
Battery life	2 years (at 80°C and 10 second logging rate)
Readings	32,510
Dimensions	110 x 18mm (4.33 x 0.70")

## ACCESSORIES

BAT 3V6 2/3AA	Replacement battery
EL-DataPad	Handheld data logger programmer & collector

## INCLUDED IN THE BOX

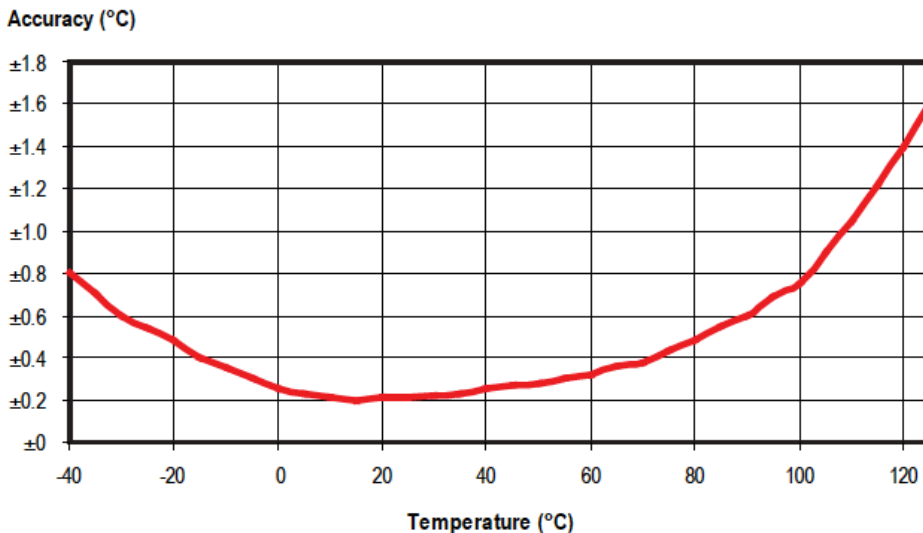
BAT 3V6 2/3AA	Battery
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**Disclaimer:** The information contained herein is believed to be reliable. The IMC Group Ltd is not responsible for any incorrect or incomplete information on this datasheet and the information or product may be changed without notice. Customers should obtain and verify the latest relevant information before placing orders for IMC products.

Version 1

## SENSOR ACCURACY & INFORMATION

Typical tolerance for temperature sensor in °C



## BATTERY INFORMATION

### Replacement

We recommend that you replace the battery annually, or prior to logging critical data. Only use 3.6V AA lithium metal batteries. The data logger does not lose its stored readings when the battery is discharged or replaced; however, the data logging process will stop and will not resume until the battery is replaced and the logger restarted by EL-WIN-USB or an EL-DataPad.

Only use an EL-USB-1-PRO battery that is supplied or recommended by Lascar, which is rated for use in high temperatures and has the correct battery terminals. Using non-recommended batteries may result in fire or explosion at high temperatures. Suitable batteries are: Tadiran TLH-5955/S and Tadiran SL-561/S.

Please note that leaving the data logger plugged into the USB port for extended periods will cause some of the battery capacity to be lost.

### WARNING

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

### Passivation

If left unused for extended periods of time the lithium metal batteries, including those used in the EasyLog range of data loggers, naturally form a non-conductive internal layer preventing them from self-discharge and effectively increasing their shelf life. When first installed in the data logger, this may cause a momentary drop in the battery voltage (the Transient Minimum Voltage) as the internal layer is broken down, resulting in the data logger resetting. Inserting the batteries in the data logger and leaving it connected to a PC for about 30 seconds will remove this layer. After this, remove and re-install the batteries to reset the data logger. Overall battery life will not be affected.