The EL-USB-1-PRO data logger measures and stores up to 32,510 temperature readings over the -40 to +125°C (-40 to +257°F) measurement ranges. The logger is housed in an stainless steel case, to protect the logger from corrosion, impact and moisture. A long life lithium battery is included, which allows logging for up to 3 years. The user can easily set up the logger and view downloaded data by plugging the device into a PC's USB port and using the supplied software. Data can then be graphed, printed and exported to other applications.

**FEATURES**

- -40 to +125°C (-40 to +257°F) measurement range.
- Stainless Steel (316).
- Environmental protection to IP67.
- USB interface for set-up and data download.
- User-programmable alarm thresholds.
- Immediate and delayed logging.
- Supplied complete with high capacity lithium battery and Windows compatible software.

**WINDOWS CONTROL SOFTWARE**

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

**DATA LOGGER SETUP VARIABLES**

- Logger name.
- °C, °F.
- Logging rate (1s, 10s, 1m, 5m, 30m, 1hr, 6hr, 12hr).
- High and low alarms.
- Immediate and delayed logging.
- Data rollover (Allows unlimited logging periods by overwriting the oldest data when the memory is full).

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement range</td>
<td>-40</td>
<td>+125 (+257)</td>
<td>°C (°F)</td>
<td></td>
</tr>
<tr>
<td>Accuracy (overall error)</td>
<td>±0.2 (±0.4)</td>
<td>±0.3 (±1)</td>
<td>°C (°F)</td>
<td></td>
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<tr>
<td>Internal resolution</td>
<td>0.1 (0.2)</td>
<td></td>
<td>°C (°F)</td>
<td></td>
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<tr>
<td>Logging rate</td>
<td>every 1s</td>
<td>every 12hr</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-40 (40)</td>
<td>+125 (+257)</td>
<td>°C (°F)</td>
<td></td>
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<tr>
<td>2/3AA 3.6V Lithium Battery Life</td>
<td>1*</td>
<td></td>
<td>Year</td>
<td></td>
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</tbody>
</table>

* 10 second logging rate @ -20°C

**ORDERING INFORMATION**

- Standard Data Logger
- Replacement Battery Pack

**STOCK NUMBER**

- EL-USB-1-PRO
- BAT 3V6 2/3AA H TEMP

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Specifications liable to change without prior warning

EL-USB-1-PRO Issue Beta 3 09/2008 N.J-H Applies to EL-USB-1-PRO
**BATTERY REPLACEMENT**

We recommend that you replace the battery every 18 months, or prior to logging critical data. The EL-USB-1-PRO does not lose its stored readings when the battery is discharged 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 an EL-USB-1-PRO battery back supplied by Lascar, which is rated for use in high temperatures and has the correct battery terminals. Using non-Lascar batteries may result in fire or explosion at high temperatures.

*Note: Leaving the EL-USB-1-PRO plugged into the USB port for longer than necessary will cause some of the battery capacity to be lost.*