

# EL-GFX-1

## Temperature Data Logger with Graphic LCD Screen

### ORDERING INFORMATION

Standard Data Logger  
(Data Logger, 2 x Batteries, USB cover,  
Mounting Clip, Micro USB cable) EL-GFX-1

Replacement Battery  
(2 Required) BAT 3V6 ½AA

### FEATURES

- Rugged and robust IP67 construction
- -30 to +80 °C (-22 to +176 °F) measurement range
- Logging rates between 10 seconds and 12 hours
- Stores over 250,000 readings
- On screen menu and graphing to start, stop, review and restart the logger in the field
- Micro USB interface for PC based set-up and data download
- Immediate, delayed, push-button or temperature triggered start mode
- User-programmable alarm thresholds
- Graphic LCD shows real-time readings, graph and current status
- User set audible alarm
- Highly visible confidence/alarm LEDs
- Supplied with user replaceable ½ AA batteries



The EL-GFX-1 standalone USB data logger measures and stores up to 251,928 temperature readings over a -30 to +80°C (22 to +176°F) range and at a resolution of 0.1°C. Using the Windows control software (available as a free-download from [www.easylogusb.com](http://www.easylogusb.com)), users can quickly set up the data logger and view downloaded data by connecting the device to the PC's USB port using the supplied cable.

The data logger features a high-contrast graphic LCD and three-input buttons. This allows users to start, stop and restart the data logger using on-screen menus. This menu also provides real-time analysis of data either as a data summary (showing highest & lowest readings and alarm conditions) or as a graph that updates as new data is added. Multiple data logging sessions can be stored on the device ready for upload to a PC at a later date.

The data logger's robust design provides IP-67 waterproof protection and the two replaceable ½AA batteries typically allow logging for up to one year.

Specifications	Minimum	Typical	Maximum	Unit
Measurement range	-30 (-22)		+80 (+176)	°C (°F)
Internal resolution		0.1 (0.1)		°C (°F)
Accuracy (overall error)		±0.1 (±0.2)	±0.5 (±1)	°C (°F)
Logging rate	every 10s		every 1hr	-
Operating temperature range*	-30 (-22)		+80 (+176)	°C (°F)
2 x ½AA 3.6V Lithium Battery Life		1**		Year

\* At temperatures below -5 °C the LCD will exhibit slower response times. The LCD will be disabled at temperatures under -20 °C and above 70 °C.

\*\* At 25 °C and 10 minute logging rate with no alarm LEDs or sounder and minimal LCD use.

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

Lascar's Easylog USB control software is available to download from [www.easylogusb.com](http://www.easylogusb.com). Easy to install and use, the control software runs under Windows XP, Vista and Windows 7. The software is used to set-up the data logger as well as download, graph and export data to Excel. Each stored logging session is saved as a separate file.

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 temperature alarms
- Immediate, delayed, push-button or temperature triggered start mode
- Disable or enable LEDs and sounder with delayed activation
- Display and backlight behaviour after button press



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

### DIMENSIONS


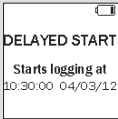



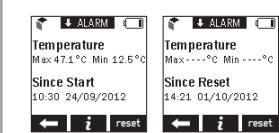
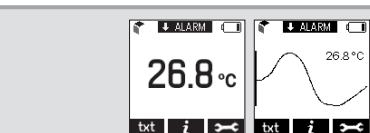
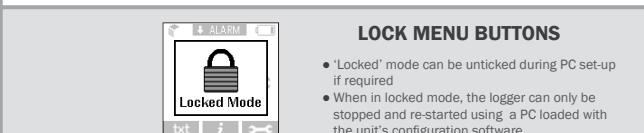
All dimensions in mm (inches)



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### MENU BUTTON FUNCTIONS AND LED SCREEN INDICATION

 <p>ARMED! Press button to start logging</p>	 <p>DELAYED START Starts logging at 10:30:00 04/03/12</p>	 <p>DELAYED START Starts logging when temperature &gt;36.2°C</p>	<p><b>START</b></p> <ul style="list-style-type: none"> <li>Loggers can be started immediately on a button press, delayed to a specific time or delayed to specific temperature reading</li> </ul>	 <p>MUTE ALARM Mute Alarm Stop Logging Logger Settings</p>	<p><b>MUTE ALARM</b></p> <ul style="list-style-type: none"> <li>Audible alarm can be muted if required</li> </ul>
 <p>STOP Stop Logging Logger Settings</p>			<p><b>STOP</b></p> <ul style="list-style-type: none"> <li>The logger can be stopped using the buttons</li> </ul>	 <p>SUMMARY DATA Temperature Max 47.1°C Min 12.5°C Since Start 10:30 24/09/2012</p>	<p><b>SUMMARY DATA</b></p> <ul style="list-style-type: none"> <li>Summary screen displays max/min log and last log. Reset function clears summary if required</li> </ul>
 <p>DISPLAY DATA 26.8°C</p>			<p><b>DISPLAY DATA</b></p> <ul style="list-style-type: none"> <li>Data can be displayed on screen in tabular or graphical format</li> </ul>	 <p>LOCK MENU BUTTONS Locked Mode</p>	

### BATTERY REPLACEMENT

We recommend that you replace the batteries every 12 months, or prior to logging critical data.

The EL-GFX-1 does not lose its stored readings when the batteries are discharged or when the batteries are replaced; however, the data logging process will be stopped. If the batteries are changed within a 2 minute window the EL-GFX-1 will retain its settings (internal clock and logging mode). This will allow logging to be restarted without additional connection to a PC via USB.

Only use 2 x 3.6V ½AA lithium batteries. Do not mix battery types and do not mix new and old batteries. Before replacing the batteries, unplug the EL-GFX-1 from the PC.

### WARNING

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

Module House  
Whiteparish, Salisbury  
Wiltshire SP5 2SJ  
UK  
T +44 (1794) 884567  
F +44 (1794) 884616  
E sales@lascar.co.uk

4258 West 12th Street  
Erie  
PA 16505  
USA  
T +1 (814) 835 0621  
F +1 (814) 838 8141  
E us-sales@lascarelectronics.com

8th Floor, China Aerospace Centre  
143 Hoi Bun Road  
Kwun Tong, Kowloon  
HONG KONG  
T +852 2797 3219  
F +852 2343 6187  
E saleshk@lascar.com.hk



www.lascarelectronics.com

