GFX Data Logger Series
Quick Start Guide

LASCAR electronics

EasyLog®

FIRST INSTALL YOUR SOFTWARE & USB DRIVER
Windows ™ XP/VISTA/7

- Visit www.easylogusb.com and click "Begin Software Download"

- Follow the instructions found in "Installing EL-WIN-USB on Windows" (link on website)

EL-WIN-USB Windows Control Software

EL-WIN-USB is the software platform for Lascar's standalone USB data loggers. It is compatible with 32-bit and 64-bit versions of Windows XP, Vista and 7.

The latest build of the software includes a major revision which incorporates an updated user interface, support for graphing of event data and the ability to graph the larger data sets that will be produced by forthcoming product launches.

What's New in EL-WIN-USB 📄

Installing EL-WIN-USB on Windows 📄

Begin Software Download

INSTALL YOUR BATTERY

- Your EL-GFX data logger is supplied with batteries fitted. To connect the batteries pull and remove the plastic tag located at the join between the top and bottom housing. With this removed tighten the screws to ensure a waterproof seal between housings.

- When replacing batteries, loosen the two screws located at the base of the unit. Remove the lower portion of the housing to expose the battery bay. Remove the old batteries and place new batteries in position. Replace the lower housing and tighten the screws.

Replace batteries

Remove lower cover with screwdriver
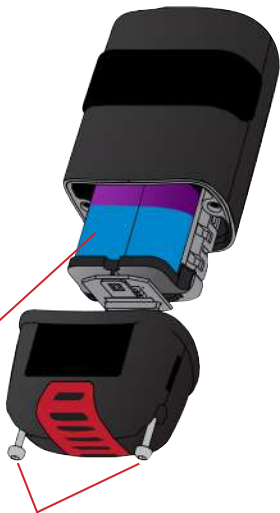
YOUR DATA LOGGER IS READY FOR USE

- Ensure the batteries are correctly installed.

- Connect the data logger to an available USB port on your PC using the micro USB cable provided.

- Double click on the EasyLog USB icon on your Windows™ desktop. This will load the configuration software. Set-up the data logger for a new log, download a data logger that has been recording, view previously saved data in graph format and check the current status of the attached data logger (including the serial number).

- When setup is complete, the data logger should be disconnected from the USB port to begin recording. If you would like advice on how best to use the data logger for a particular application, please contact your nearest Lascar representative.

- **Do not leave your data logger connected to the USB port as this will cause some of the battery capacity to be lost.**

GETTING TO KNOW YOUR EL-GFX LOGGER

Status LEDs

Audible Alarm

128x128 Backlit LCD

USB Port

Menu Buttons

Mounting Clip

Battery cover screw

Sensor/Input

Model shown: EL-GFX-1. Other models may differ

- **USB Cover:** This USB port cover gives IP65 protection* to your data logger when fitted.

- **Mounting Clip:** The plastic mounting clip supplied allows wall mounting if required or to metal surfaces using the integrated magnet.

- **Micro USB Cable:** The micro USB cable allows connection to the PC for programming or data download. Use in conjunction with a USB wall adapter for continuous mains power.
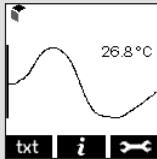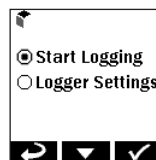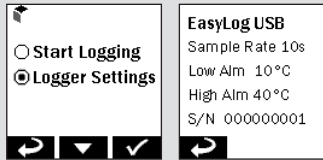
- **2x ½ AA Batteries:** The unit is powered when the 2x ½ AA batteries are installed. Batteries are user replaceable when drained.

* The EL-GFX-DTC & EL-GFX-DTP are not IP-rated

MENU BUTTON FUNCTIONS AND LED SCREEN INDICATION

START LOGGER

ARMED! Press button to start logging ✓

DELAYED START Starts logging at 10:30:00 04/03/12

DELAYED START Starts logging when temperature above 36.2°C

- Loggers can be started immediately on a button press, delayed to a specific time or delayed to specific reading

DISPLAY DATA

26.8 °c — gfx | i | ✂
26.8°C — txt | i | ✂

- Data can be displayed on screen in digital or graphical format
- You can switch between these views by pressing the **gfx** / **txt** buttons at the bottom-left of your screen

ON-SCREEN ICONS

↑ ALARM
↓ ALARM

- When this EasyLog cube is spinning in the top-left corner your logger is logging
- High/Low Alarm indicators are displayed at the top of your screen
- This icon indicates that your battery is low and will need to be replaced soon

STOP/START LOGGING & MUTE ALARM

● Stop Logging ○ Logger Settings ↩ ▼ ✓

● Start Logging ○ Logger Settings ↩ ▼ ✓

↓ ALARM ● Mute Alarm ○ Stop Logging ○ Logger Settings ↩ ▼ ✓

- By pressing the ✂ button, you can stop your logger, or view logger settings. If you have already stopped logging, this option will change to 'Start Logging'. The audible alarm can be muted from this menu if enabled

SUMMARY DATA

Temperature Max 34.8°C Min 22.8°C **Since** 10:30 24/09/2012 ▼ | reset | ↩

Mem Used 32% Readings 6336

- Summary screen displays minimum and maximum logs. Reset function clears summary if required
- These screens can be reached by pressing the **i** button

LOGGER SETTINGS

○ Start Logging ● Logger Settings ↩ ▼ ✓

EasyLog USB Sample Rate 10s Low Alm 10°C High Alm 40°C S/N 000000001 ↩

- To view a summary of the logger's settings press the ✂ button, then click 'Logger Settings'

LOCKED MODE

🔒 **Locked Mode** gfx | i | ✂

- When in locked mode - an option during PC set-up - the logger can only be stopped and re-started using a PC loaded with the unit's configuration software

POP-UP MESSAGES

Time & date not set Start unit logging using PC gfx | i | ✂

Memory is 90% full Download data to a PC to clear gfx | i | ✂

Memory full, logger stopped Download data to a PC to clear gfx | i | ✂

- A message will overlay the screen - if there is an issue - the next time a button is pressed, e.g. if the logger is running low on memory

Please note that screens may vary slightly depending on model. EL-GFX-1 screens shown.

GFX FAMILY OF DATA LOGGERS			Accuracy (overall error)				
Part No	Function	Range	Typ.	Max.	Readings Per Channel	Battery	Battery Life
EL-GFX-1	Temperature	-30 to +80°C (-22 to +176°F)	±0.1°C (±0.2°F)	±0.75°C (±1.5°F)	250,000+	2 x ½ AA	6 months
EL-GFX-2	Temperature & Humidity and Dew-point	-30 to +80°C (-22 to +176°F) 0 to 100%RH	±0.5°C (±1.0°F) ±3.0%RH	±2.0°C (±4.0°F) ±5.0%RH	250,000+	2 x ½ AA	6 months
EL-GFX-2+	Increased accuracy temperature, humidity and dew-point	-30 to +80°C (-22 to +176°F) 0 to 100%RH	±0.3°C (±0.6°F) ±2%RH	±1.5°C (±3.0°F) ±4%RH	250,000+	2 x ½ AA	6 months
EL-GFX-DTC	Dual-Channel Thermocouple (J, K and T-type)	-200 to +1350ºC (-328 to +2462ºF) (K-type) -200 to +1190ºC (-328 to +2174ºF) (J-type) -200 to +390ºC (-328 to +734ºF) (T-type)	±0.5°C (±0.9°F)		250,000+	2 x ½ AA	6 months
EL-GFX-DTP	Dual-channel thermistor	-40 to +125°C (-40 to +257°F)	±0.1°C (±0.2°F)		250,000+	2 x ½ AA	6 months