Features

- Dual thermistor inputs measure -40 to +125°C (-40 to +257°F)
- Stand-alone operation with a USB interface for configuration and upload
- Sample intervals from 2s to 1hr
- Stores up to 250,000 readings
- Programmable high and low alarms with audio/visual alerts
- High contrast LCD display
- Downloadable EL-Win-USB software for set-up and data analysis
- Powered by replaceable ½AA long-life lithium batteries (2)

Total Record Times

Sampling Interval	Record Time
1 sample every 2 seconds	5.8 days
1 sample every 5 seconds	14 days
1 sample every 10 seconds	29 days
1 sample every 15 seconds	43 days
1 sample every 20 seconds	58 days
1 sample every 30 seconds	87 days
1 sample every 1 minutes	174 days
1 sample every 2 minutes	249 days
1 sample every 5 minutes	> 2 years
1 sample every 10 minutes	> 2 years
1 sample every 15 minutes	> 2 years
1 sample every 20 minutes	> 2 years
1 sample every 30 minutes	> 2 years
1 sample every 1 hour	> 2 years

Programmable Elements

- Logger name and channel names
- °F or °C
- **Sampling interval**

    2, 5, 10, 15, 20, 30 seconds

    1, 2, 5, 10, 15, 20, 30 minutes

    1 hour

- **LCD control to maximize battery life**

    LCD and backlight on for 15 sec after button press

    LCD always on, backlight on for 15 sec after button press

- **Security setting**

    Allow/disallow the viewing and the adjustment of settings when deployed

- High and low temperature alarm thresholds
- Alarm delay – the number of consecutive samples after a threshold breech before an alarm is triggered
- Enable/disable status LEDS (sampling, alarm)
- Enable/disable audible alarm
- **Record trigger**

    Immediate

    When the logger button is pressed

    Less or greater than a programmable temperature value

    At a specific date and time

EL-GFX-DTP Description

The EL-GFX-DTP is a cost effective dual-channel temperature data logger, capable of displaying and logging data from two thermistors, simultaneously. The stand alone logger includes two 1 meter thermistors with a -40 to +125°C (-40 to +257°F) measurement range. With sample intervals ranging from 2 seconds to 1 hour, the EL-GFX-DTP has the capacity to store up to 250,000 readings. Programmable alarms for each thermistor channel allow you to illuminate a LED and/or trigger a sound when temperatures rise above or fall below specified levels.
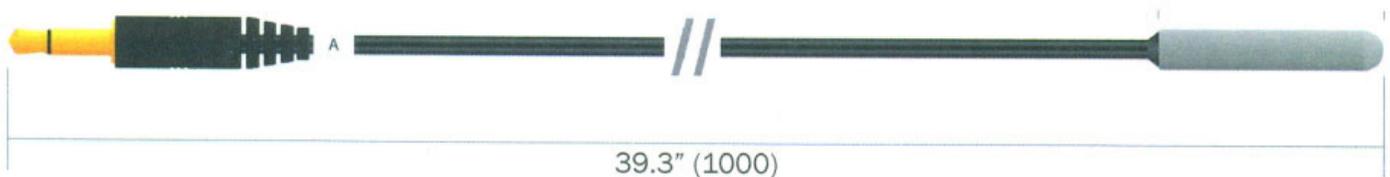
Three control buttons allow you to start and stop recording, view alarm levels and perform basic data analysis. You can view minimum and maximum values or graph data in real-time on the high contrast LCD display.

The downloadable EL-WIN-USB software allows you to configure the EL-GFX-DTP for single or dual channel operation, choose a Thermistor type and select a sample interval. In addition, alarm levels can be set and audio/visual alarm indicators can be configured. The EL-WIN-USB software also programs the EL-GFX-DTP for when to begin recording data; whether at a specific date and time, at a particular temperature threshold, or as soon as the logger is disconnected from the USB port.
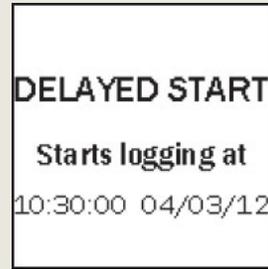
EL-GFX-DTP Close-up

Status LED

Sampling LED

Sensor Window

USB port

Bottom View

Slots for mounting clip

Screw for battery access

Thermistor Connections

101.0 (3.98)

Function Buttons (3) see pages 3 and 4 for further details

48.5 (1.91)

30.5 (1.20)

All dimensions in mm (inches)

The EL-GFX-DTP includes two 39.3" thermistor probes with 3.5mm stereo connectors.
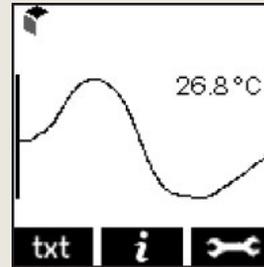

39.3" (1000)

Start logging data

The logger can be configured to log data immediately, with the press of a button, at a particular date/time or at a temperature threshold.

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

Data Display

Temperature can be displayed by itself, or with an accompanying real-time graph.

Press the 'gfx'/'txt' button to toggle between the two

26.8 °C
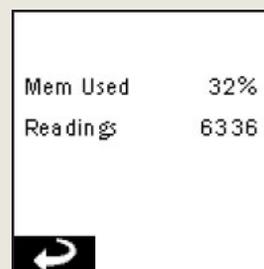gfx | i | ⚒

26.8°C
txt | i | ⚒

Start/Stop Logging

Press the <wrench> button to start/ stop logging, or view logger settings. You can also mute an active alarm.

◉ Stop Logging
○ Logger Settings
↩ | ▼ | ✓

◉ Start Logging
○ Logger Settings
↩ | ▼ | ✓

⬇ ALARM
◉ Mute Alarm
○ Stop Logging
○ Logger Settings
↩ | ▼ | ✓

Min/Max Temperature

Press the 'i' button to display min/max temperatures.

Press the <down> button to see the % memory used and the number of readings logged.

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

Mem Used   32%
Readings   6336
↩

Locked Mode

Enabled in the ELWIN-USB software, 'Locked Mode' forces users to connect the EL-GFX-DTP to a PC to stop/start logging. This prevents you from interrupting a logging session by accidentally pressing the wrong button.

Settings

Click the <wrench> button and choose 'Logger Settings' to view the current sample interval, high/low alarm levels, and the serial number of the logger.

Warnings

The EL-GFX-DTP will automatically alert you when the time and date aren't set, when the memory is 90% full, and when the memory is 100% full.

On-screen Symbols

A spinning EasyLog symbol indicates that data is being logged.
Alarm symbols indicate when a high/low alarm threshold has been breached.
A battery meter displays the battery level

EL-GFX-DTP Specifications

Specification	Minimum	Typical	Maximum	Unit
Supplied probe measurement range	-40 (-40)		+125 (+257)	°C (°F)
Internal Resolution		0.1 (0.2)		°C (°F)
Accuracy (logger error)		±0.1 (±0.2)*		°C (°F)
Logging Rate (configurable)	every 2 seconds		every 1 hour	
Operating Temperature Range***	-10 (-14)		+40 (+104)	°C (°F)
Battery Life†		4**		Months

* At 25°C. See probe accuracy curve on page 4. Important - quoted accuracy is for the data logger only when measuring within the specified operating temperature.
Thermistor error is not included and should also be taken into consideration.

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

WARNING: Do not exceed operating temperatures.

EL-GFX-DTP Ordering Information

Description	Order Number
EL-GFX-DTP Data Logger Includes data logger, two (2) batteries (preinstalled), USB cable (31-inches), two (2) thermistor probes, mounting clip, downloadable configuration, review and Excel export software.	**EL-GFX-DTP**
Optional Accessories	
Spare Battery Please note: 2 batteries are required to run the EL-GFX-DTP data logger.	**BAT-3V6**
Probe Extender 5 meter thermistor probe extender.	**EL-PROBEEXTENDER-5M**
Probe Extender 1.5 meter thermistor probe extender.	**EL-PROBEEXTENDER-1.5M**
Probe Extender 10 meter thermistor probe extender.	**EL-PROBEEXTENDER-10M**

Included

EL-GFX-DTP
Data Logger

Mounting Clip

USB Cable (31 inches)

Software (Via Download)

2 Batteries (preinstalled)

2 Thermistor Probes (1m)

Optional Accessories

EL-PROBEEXTENDER-5M
(5 meter)

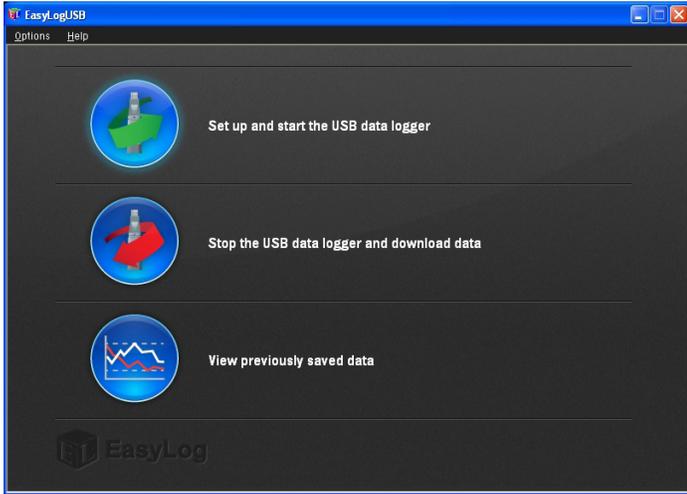**EL-PROBEEXTENDER-1.5M**
(1.5 meter)
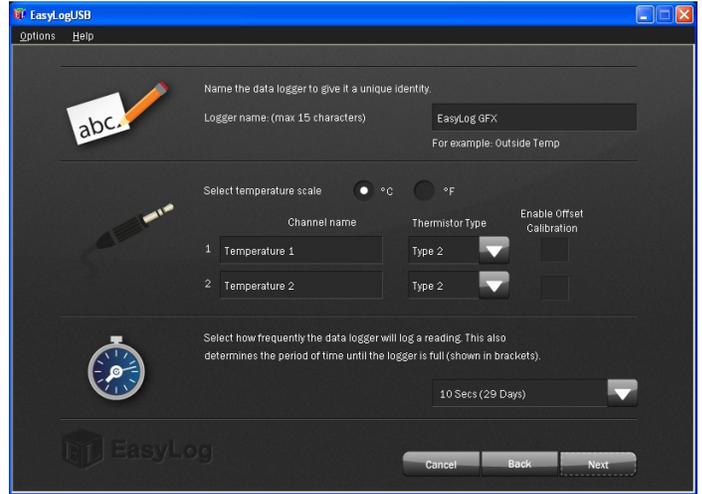

EL-PROBEEXTENDER-10M
(10 meter)

EL-GFX-DTP Included Software Overview

The EasyLog USB software allows users to name the EL-GFX-DTP, choose a thermistor type and temperature scale (°C or °F), and set the sample interval. Alarms and delayed start times are also set using the Easylog USB software.
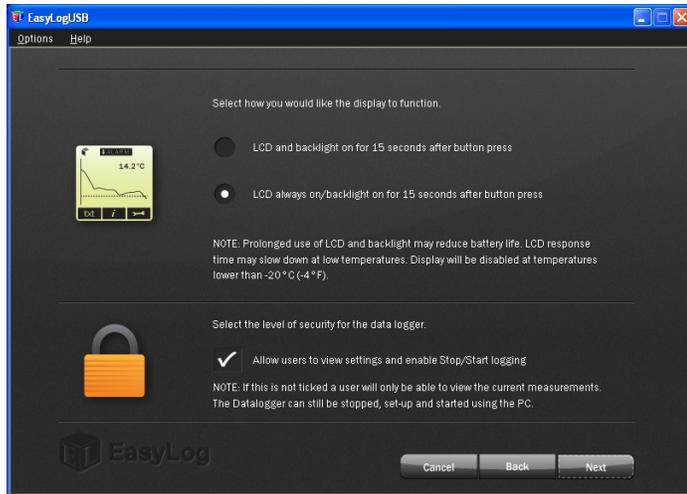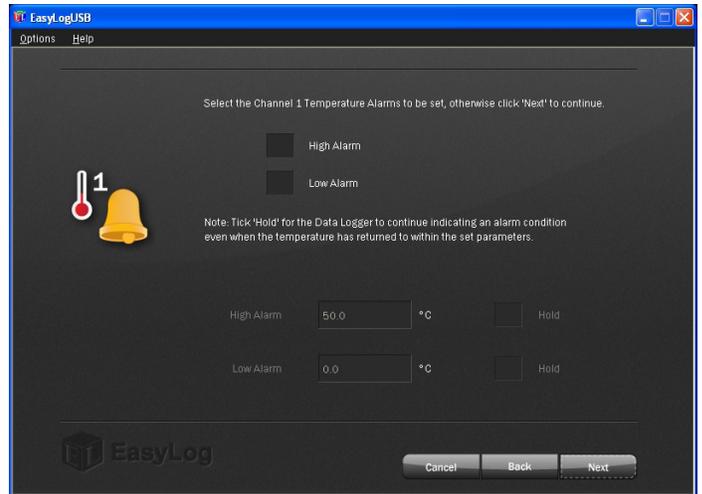
Start Software
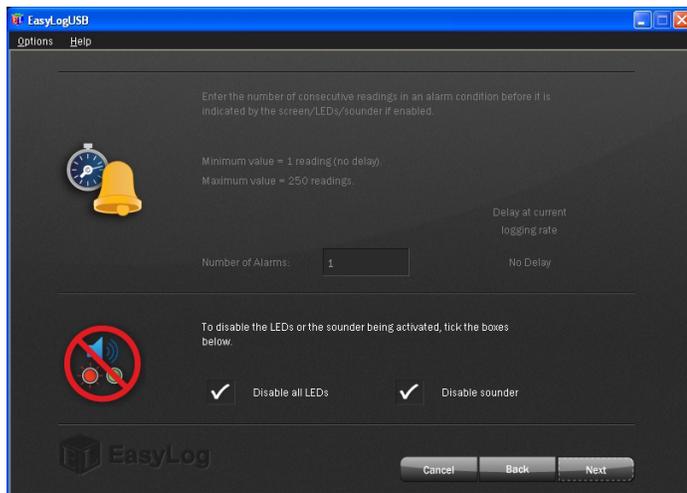

Choose the scale, thermistor type and sample interval

Configure the LCD display and security settings

Set alarms

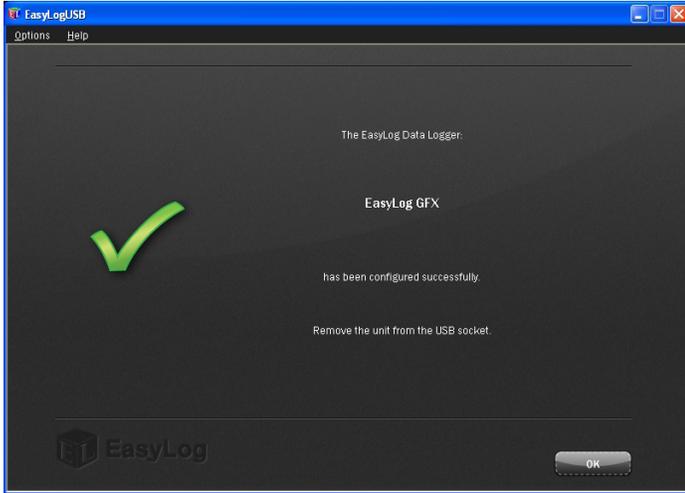Specify alarm readings before an alert and alarm indicators

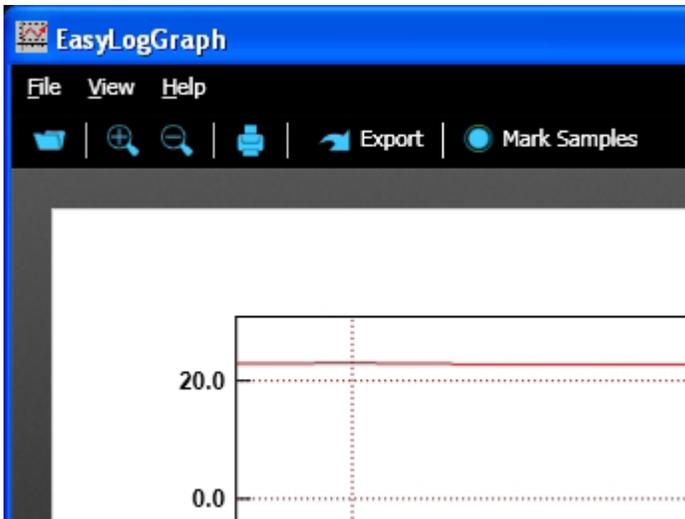Choose when to start recording

Setup complete!

Once acquisition is complete, the included EasyLogGraph software allows you to graph the data, print it, or save it in .xls format for easy viewing in Microsoft Excel.

Data displayed in EasyLogGraph software

Data displayed in Microsoft Excel

EL-GFX Series Graphing Data Loggers

EL-GFX Data Logger series products are a line of low cost, compact, battery-operated data loggers with a graphical display. Each product in the line offers a specific measurement function and range.

EL-GFX-1 Temperature Data Logger
Measures -30 to +80 °C (-22 to 176 °F)

EL-GFX-DTP Temperature Data Logger with Probe
Measures -40 to +125°C (-40 to +257°F)

EL-GFX-2 Temperature and Humidity Data Logger
Measures -30 to +80 °C (-22 to 176 °F) and 0-100%RH

EL-GFX-2+High Accuracy Temp and RH Data Logger
Measures -30 to +80 °C (-22 to 176 °F) and 0-100%RH

EL-GFX-DTC Thermocouple Temperature Data Logger
Supports K, J, and T type Thermocouples

EL-GFX-TC Thermocouple Temperature Data Logger
Supports K, J, and T type Thermocouples

Lascar Data Logger Product Lines

EL-USB Data Loggers

Lascar EasyLog model EL-USB series products are a line of low cost, compact, battery-operated data loggers with built-in memory and a USB interface for easy setup and data download. Each product in the line offers a specific measurement function (including temperature, voltage, process current, and more).

EL-GFX Data Loggers

The EL-GFX line of data loggers is the latest release from Lascar Electronics with similar functionality of the EL-USB series with an added graphic display for data.

EL-WiFi Data Loggers

Lascar's EL-Wifi Data Logger series products are low cost, compact, battery-operated data loggers with wireless connectivity to any PC over a WiFi router. Each product in the line features a large, easy-to-read display of current measurements, and is purchased for specific measurement functions.

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Fax: 330-666-5434

Data Acquisition Product Links
(click on text to jump to page)
Data Acquisition | Data Logger