DATAQ®
INSTRUMENTS

The EL-USB-LITE temperature data logger measures and stores up to 4,080 temperature readings over a -10 to +50°C (+14 to +122°F) range with a fixed 30-minute sample rate and a battery life of 1 month continuous use. Press the button and a red/green LED indicates whether a preset alarm level has been recorded. Easily configure the device and download the stored data by plugging the data logger into a PC's USB port and running the purpose-designed software that allows you to easily graph, print and export data to other applications. The battery is fitted; to begin using the data logger you must remove the tab.

Features

- -10 to +50°C (+14 to +122°F) Measurement Range
- USB Interface for Set-up and Data Download
- 2 User-Programmable Alarm Thresholds
- Bright Red and Green LED Indication
- Replaceable Internal Lithium Battery
- 30-minute fixed sample rate (one sample every 30 min)

Programmable Elements

- Logger Name
- °C, °F
- High and Low Alarms
- Start Date and Start Time

Record Times

Sampling Interval	Record Times
1 sample every 30 minutes	1 month

LED Flashing Modes

The EL-USB-LITE data logger features 1 bi-color LED. To save power, LED indication only operates when the push button is pressed for a short while.

The logger will flash red when the logged temperature has exceeded a Low or High alarm level.
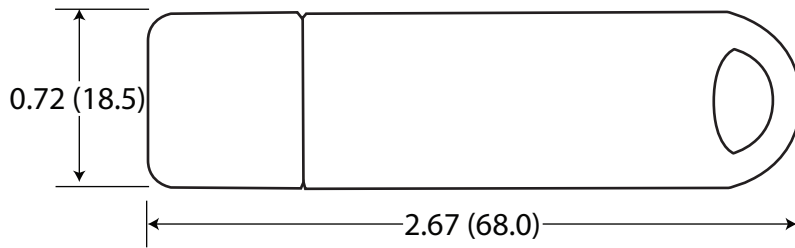
The logger will flash green when the data logger is logging data (no alarms).

	Green Single Flash The data logger is currently logging. No alarm.
	Red Single Flash The data logger is currently logging. Low alarm.
	Red Double Flash The data logger is currently logging. High Alarm.
	No LEDs Flash Press the push button to activate LED indication. If no flash continues, the data logger is stopped, the battery is dead, or there is no battery.

Red/Green LED

Dimensions

0.72 (18.5)

2.67 (68.0)

Dimensions shown are inches (mm)

Specifications

Specification	Minimum	Typical	Maximum	Unit
Measurement Range	-10 (+14)		+50 (+122)	°C (°F)
Internal Resolution		1 (2)		°C (°F)
Accuracy (overall error)			±2.5 (±4.5)	°C (°F)
Logging Rate	every 30 minutes			-
Memory Capacity		4,080		samples
Operating Temperature Range	-10 (+14)		+50 (+122)	°C (°F)
Battery Life	1			Month

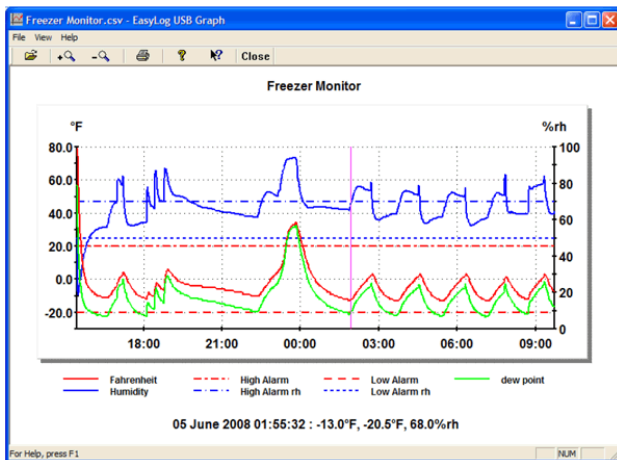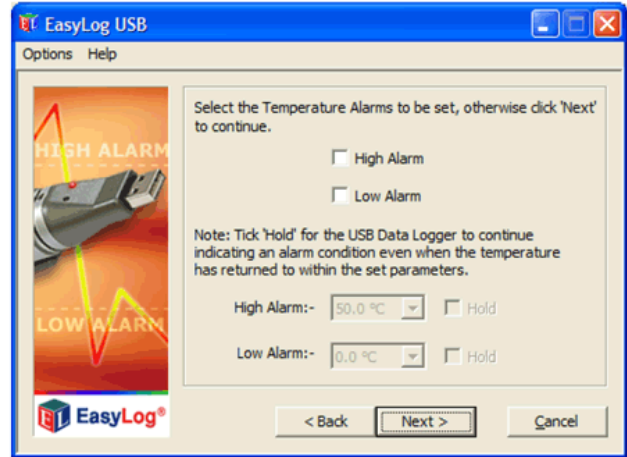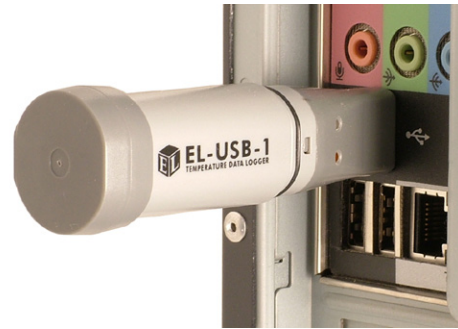# EL-USB-LITE Ordering Information

Description	Order Number
Temperature Data Logger Includes EL-USB-LITE data logger, software on CD, and battery.	**EL-USB-LITE**

Easy to Program and Deploy

Getting an EasyLogger product ready to acquire data is simple:

1. Remove the protective USB cover.

2. Plug the instrument into any convenient USB port (image 1).

3. Program the data logger with the provided EasyLog software (image 2):

   • Give the logger a unique name (convenient when deploying multiple units).

   • Select the required sample rate.

   • Select high and/or low alarm thresholds.

   • Select the specific date and time to begin logging.

Now remove the data logger from the USB port, replace the USB cover, and deploy the instrument wherever you need it.

Easy to Upload and Analyze Data

Whether you want to review stored data using the supplied application or using Microsoft Excel, getting meaningful results from recorded data is fast and easy:

1. Remove the protective USB cover.

2. Plug the instrument back into the PC's USB port.

3. Use EasyLog software to stop recording, access the instrument's stored data, and save it to a file that you name on the PC, all in one easy operation. The file format is Excel-compatible.

4. Immediately EasyLog's Graph utility is enabled to display all the stored data in one compressed view.

5. A cursor allows you to determine signal magnitude and time and date of acquisition for any value, and a magnifier utility allows you to zoom in for a closer look over any range – Easy and fast.

6. For more custom analysis and report generation, simply import the stored data file to Microsoft Excel for virtually unlimited flexibility in how you view and interpret your results.

2.8 inch Full color touch-screen display
Easy-to-use menu to Set Up data loggers; Download data from logger; View Data; and Instrument settings (Time/Date, Power, Status)

On/Off button
ON = Single press
OFF = Press and hold for 3 seconds

The EL-DataPad allows users of certain EL-USB data loggers to configure their units, upload data, and view logging results on-the-spot rather than moving the logger to their PC. This allows shorter breaks in data collection for more data continuity, less travel time, and on-the-spot data review and data logger reconfiguration.

The logger is connected to the EL-DataPad via a standard USB port at the top of the viewer. Once connected, you are guided through a simple touchscreen menu with options to Set-Up Logger, Stop Logger & Download and View Data. On-screen instructions follow the same structure as EL-USB-WIN software for the PC currently provided with each data logger.

Data from up to 100 loggers can be viewed on the EL-DataPad, with data from a further 400 units stored on the unit at any one time. Data can be transferred to a PC using a micro USB cable supplied with the unit. Once uploaded, data is saved in comma separated variable (csv) format, making it suitable for import into spreadsheet programs such as Microsoft Excel or graphed on a PC using EL-WIN-USB software.

Features

- Archive capacity for up to 500 logger uploads
- View uploaded data with general trend and summary reports
- Allows full or quick set-up of compatible EL-USB data loggers
- Touch screen interface for navigation of menus
- 2.8 inch full color TFT display
- Stored data can be transferred to a PC via micro USB cable
- Rechargeable internal built-in lithium battery provides up to 8 hours of use between charges

Compatible EL-USB Data Loggers

The EL-DataPad is compatible with the following Data Loggers:

- EL-USB-LITE
- EL-USB-1
- EL-USB-1-LCD
- EL-USB-1-PRO
- EL-USB-2
- EL-USB-2+
- EL-USB-2-LCD
- EL-USB-2-LCD+
- EL-USB-TC
- EL-USB-TC-LCD

EasyLog Products for Any Application

From temperature and humidity to carbon monoxide trending, there's an EasyLog data logger that's right for you. Click on "Jump" to go to the product's web page.

Measurement		Model EL-USB														
Function	Range	-LITE	-1	-1-LCD	-1-RCG	-1-PRO	-2	-2+	-2-LCD	-2-LCD+	-3	-4	-5	-TC	-TC-LCD	-CO
Temperature	-10 to +50°C (+14 to +122°F)	Jump														
Temperature	-35 to +80°C (-31 to +176°F)		Jump	Jump												
Temperature	-20 to +60°C (-4 to +140°F)				Jump											
High Temperature	-40 to +125°C (-40 to +257°F)					Jump										
Humidity, temperature, dew point	0 to 100% RH -35 to +80°C (-31 to +176°F)						Jump	Jump	Jump	Jump						
Voltage	0 to 30 VDC										Jump					
Process current	4 to 20 mA											Jump				
Event, State, Count	3-28 VDC												Jump			
Thermocouple (no display)	-130 to +900°C (J) -200 to +1300°C (K) -200 to +350°C (T)													Jump		
Thermocouple (with display)	-130 to +900°C (J) -200 to +1300°C (K) -200 to +350°C (T)														Jump	
Carbon monoxide	0 to 1000 ppm															Jump

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