LASCAR
electronics

Data Logging Solutions from Lascar Electronics

EL-USB-2-LCD
RH / TEMP DATA LOGGER

EasyLog

files thru the air

EasyLog® USB
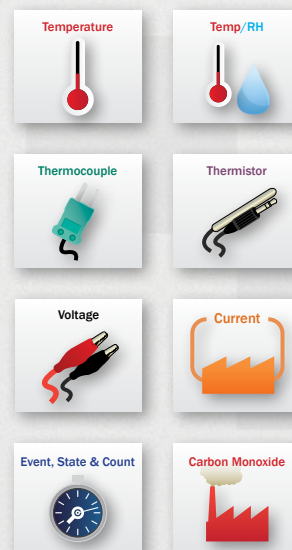
Simple, Low-Cost Data Logging

Lascar's standalone USB data loggers measure a number of parameters including temperature, humidity, voltage, current, 4-20mA, event/count/state and carbon monoxide over a period of time.

EasyLog® USB data loggers connect directly into the USB port of a PC. The Windows software for set-up and data download is both streamlined and easy to use. Choose a logger name, sample rate, alarm levels and start mode before recording. After data has been collected, it can be graphed or exported to Excel for further analysis.

Each data logger is supplied with a battery and features red/green LEDs to indicate data logging status. Some models include an LCD and push-button to show the most recent, maximum and minimum readings while logging. Most temperature and temperature & humidity data loggers also provide waterproof protection for outdoor use.

In this range:

Temperature	Temp/RH
Thermocouple	Thermistor
Voltage	Current
Event, State & Count	Carbon Monoxide

EL-DataPad

EL-DataPad

Handheld Data Collector & Programmer

Designed to work with temperature, humidity and thermocouple USB data loggers, this touch-screen device allows users to download data and analyze the results in the field as well as setting up and restarting data loggers.

The EL-DataPad has capacity for data from more than 500 full logging sessions and can be connected to a PC via a micro-USB cable to download data at a later time. The EL-DataPad also gives users with Mac or Linux operating systems a means of employing EasyLog® USB data loggers without the need for PC set-up and download.

EL-EnviroPad-TC

Thermometer with Inbuilt Data Logging & Graphing

The EL-EnviroPad-TC is a robust and easy to use handheld device which takes and records temperature readings via the attached K-type probe. A large touch-screen, color display indicates temperature, maximum and minimum readings and will produce a graph of the data. The unit has two modes: **Data Logging**, when it can be set up and left to take temperature readings at pre-determined intervals for a desired length of time and **Spot Measurement**, when it can be used as a thermometer to capture one-off temperature readings displayed on screen. The unit is compatible with any J, K, N and T-type thermocouple probe.

EL-EnviroPad-TC
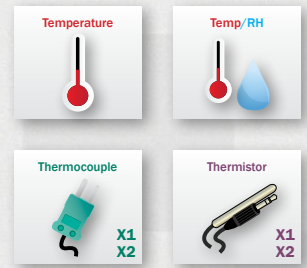
EasyLog® GFX

Advanced Data Logging

The EasyLog® GFX range brings a more advanced feature set to the monitoring of temperature and humidity.

The GFX products feature an increased memory capacity (250,000 readings per channel), 0.1 digit resolution across all parameters, as well as a graphics display which shows real-time trend graphs and data summaries. An on-screen menu provides the capability for users to start, stop and restart the data logger in the field.

Connecting to the PC via a micro-USB cable, the EasyLog® GFX range uses the EL-WIN-USB software for set up and download with additional functions including conditional start mode, delayed alarm function and probe calibration.

The range also includes dual-channel data loggers for reduced cost per channel.

Products shown:
EL-GFX-1, EL-GFX-2,
EL-GFX-DTC, EL-GFX-DTP

Glycol Probes

These glycol-filled probes are designed to provide a buffered response to changes in temperature. This helps to simulate the thermal lag experienced by products stored in the monitored environment.

Glycol probes are available for use with all thermocouple and thermistor probe temperature data loggers.

Products shown:
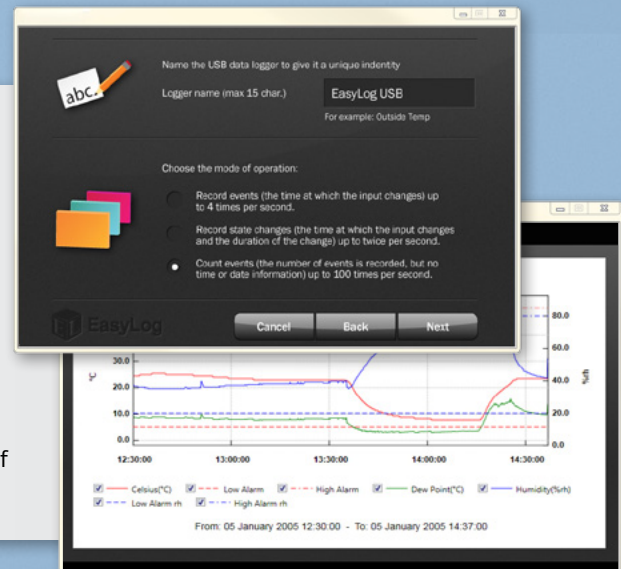EL-PROBEA-3.0M-TP-GLY,
EL-PROBE1-2.0M-TC-GLY

EL-WIN-USB

Intuitive, Powerful & Free Windows Control Software

Lascar's free data logging control software, EL-WIN-USB, provides an intuitive and easy-to-use interface for communicating with the EasyLog® USB and GFX data logger ranges.

Compatible with all Windows 8, 7, Vista and XP PCs, the software employs a wizard format to guide users through the set up and download processes.

A powerful graphing module for analyzing downloaded data, it also allows export of the data to Microsoft Excel, PDF and jpeg formats.

WiFi Sensors
Wireless Data Logging
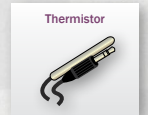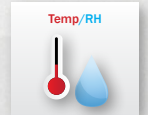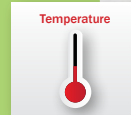
Temperature

Temp/RH

Thermocouple

Thermistor

The WiFi range of temperature and humidity data loggers provides the capability to remotely monitor an environment. Data is uploaded periodically using a standard WiFi network without the need to physically collect and connect the units to a PC.

Each sensor features a rechargeable battery or can be permanently powered using a USB wall adapter. The large LCD on the face of the product provides an up-to-date reading, while the button cycles through the maximum and minimum readings.

The range includes data loggers for monitoring temperature, humidity, thermocouple temperature and external thermistor probe temperature.
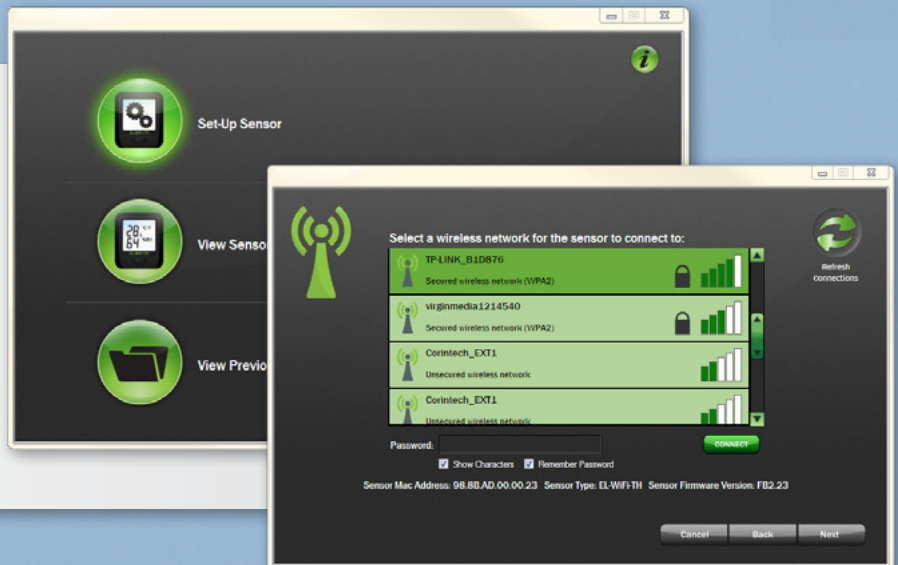
WiFi-TP

WiFi-TH

WiFi-TC

WiFi Communication Software

Users can interface with their data loggers via a local PC, using Lascar's free WiFi software, or by subscribing to the cloud-based data hosting service which allows access to data from any internet enabled device such as tablet, smartphone or computer.

Both interfaces provide access to the stored data and real-time alerts of alarm conditions. Users can also remotely change sample rates, scales and alert settings. The cloud-based service adds email alerts for both alarm conditions and power outages.

Set-Up Sensor

View Senso

View Previo

Select a wireless network for the sensor to connect to:

TP-LINK_B1D876
Secured wireless network (WPA2)

virginmedia1214540
Secured wireless network (WPA2)

Corintech_EXT1
Unsecured wireless network

Corintech_EXT1
Unsecured wireless network

Refresh connections

Password:

Show Characters   Remember Password

CONNECT

Sensor Mac Address: 98.8B.AD.00.00.23   Sensor Type: EL-WiFi-TH   Sensor Firmware Version: FB2.23
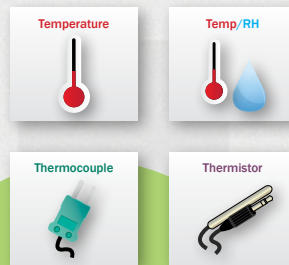
Cancel   Back   Next

Files Thru The Air

Files Thru The Air Cloud Service takes the WiFi sensors to a new level, unshackling them from the PC and allowing them to be managed and monitored over the internet from any location in the world. Users can interact with their sensors via a web based interface allowing them to monitor multiple WiFi sensors in any number of locations. Not only does it provide the ability to manage and monitor the sensors, but users can also access 'Event Logs' which will give a record of any past triggered alarm events and have the ability to graph their sensor data on-line. Users also have the ability to set up email alerts which will notify them as and when an Alarm Event happens.

Files Thru The Air is a safe, secure and protected location for data to be stored and can be used in aiding the compliance of 21CFR Part II.

Temperature

Temp/RH

Thermocouple

Thermistor

WiFi-Alert
Audible and Visual Alarm

WiFi-ALERT
WiFi Sensor Monitoring System with Audible & Visual Alarm

The WiFi-Alert is a standalone monitoring system for all the sensors in the WiFi range, receiving alarm messages from any WiFi sensor connected to the same wireless network. An email, text or on-screen alarm may not be enough. The WiFi-Alert indicates an alarm activation by flashing a strong, red light under its translucent plastic housing and emitting one of 9 alarm tones. Position by your desk or the sensor in question and this module will make sure there is no question when an alarm has been breached.

• Works with the WiFi range of sensors
• Uses existing WiFi infrastructure
• Configurable alert tones and volume
• Visual alarm from high brightness LEDs

Applications

Storage & Logistics
A number of USB data loggers are small enough to be placed alongside or within goods as they move through a supply chain. This provides a temperature record from manufacture, through storage, into transportation and finally on to the end user.

Refrigeration
With both food and medicine, it is increasingly important for manufacturers, suppliers and end users to have verifiable evidence that correct storage conditions have been provided from the moment of manufacture to the time the goods are used. Lascar's data loggers provide a permanent record to show that these conditions have been correctly maintained.

Working Environment
Sub-optimal conditions in a working environment can significantly affect productivity levels. EasyLog® data loggers provide an unobtrusive means of determining where problems in a building are likely to occur.

Museums & Preservation
Exposure to extremes of temperature or humidity can cause textiles, canvas and wood to quickly deteriorate. To support the preservation of exhibits, EasyLog® data loggers provide a record of these environmental factors over a period of time, helping to identify potential problems before damage occurs.

Industrial Processes
Many industrial sensors output an analog voltage, 4-20mA loop, or volt-free contact to provide information about a particular process. Lascar's voltage, current, 4-20mA and event/count/state loggers can be used to record this output over a period of time to ensure correct operation has occurred.

Vaccination Monitoring (Exceeds CDC Guidelines on Data Loggers)
Lascar Electronics has paired its powerful thermocouple and thermistor data loggers with a glycol bottle probe for users who need a complete vaccination temperature monitoring system. Available in single or dual channel format, these units use simple Windows-based software for programming and data download.

- ☑ Detachable Temperature Probe
  - K-Type thermocouple or thermistor probe in Glycol-filled bottle
  - 6 ft thermocouple cable length
  - 9 ft thermistor cable length

- ☑ Continuous Temperature Monitoring
  - User selectable logging rates between 2 sec and 1 hr

- ☑ Memory Storage: Over 250,000 Readings
  - Logger will not overwrite data once full
  - Unit can store multiple logging sessions

- ☑ Operating Range: Glycol Bottle Probe -34 to +40°C
  - Stand-alone logger operation range -10 to +40°C

- ☑ Uncertainty: In the Range of -1 to +15°C
  - ±0.5° C (Thermocouple)
  - ±0.1° C (Thermistor)

- ☑ Resolution: ±0.1°C

- ☑ Battery Life: 4 Months Typical or Option to Power from Wall Socket

- ☑ Integrated Liquid Crystal Display (LCD)
  - GFX has real-time temp, alarm status, graph of recent temps

- ☑ Alarm Capabilities
  - User settable audible alarm
  - Highly visible confidence/alarm LEDs

- ☑ Download/Archival Software
  - FREE software downloaded from Lascar's software website, www.easylogusb.com
  - The micro USB cable allows connection to the PC for programming or data download
  - Logged data available for upload to PC at any time
  - Can directly download, graph and export data to Excel
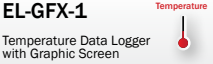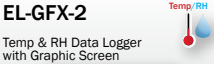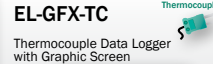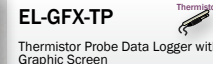
Calibration

Every data logger includes a warranty that it will perform to specification. However, some regulations require accompanying test certificates confirming that the data loggers are within calibration. Lascar can provide NIST traceable certificates with any temperature, humidity, thermocouple or thermistor data logger.

EL-USB Range

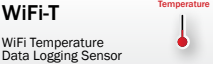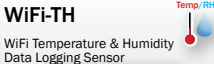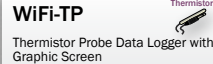| Product	Description	Measurement	Range
EL-USB-1	Temperature Data Logger	Temperature	-31 to +176°F range
EL-USB-1-LCD	Temperature Data Logger with LCD	Temperature	-31 to +176°F range
EL-USB-1-PRO	Industrial Temperature Data Logger	Temperature	-40 to +257°F range
EL-USB-1-RCG	Temperature Data Logger with Rechargeable Battery	Temperature	-4 to +140°F range
EL-USB-2	Temperature & Relative Humidity Data Logger — **Higher Accuracy Available: EL-USB-2+**	Temp/RH	-31 to +176°F & 0 to 100% RH range
EL-USB-2-LCD	Temperature & Relative Humidity Data Logger with LCD — **Higher Accuracy Available: EL-USB-2-LCD+**	Temp/RH	-31 to +176°F & 0 to 100% RH range
EL-USB-LITE	Low Cost USB Temperature Data Logger	Temperature	-14 to +122°F range
EL-USB-RT	Real-Time Temperature, Relative Humidity and Dew-Point Data Logger	Temp/RH	-4° to +158°F & 0 to 100% RH range
EL-USB-3	Voltage Data Logger	Voltage	0 to 30V d.c. range
EL-USB-4	4 - 20mA Data Logger	Current	4 - 20mA range
EL-USB-5	Event, Count & State Data Logger	Event, State & Count	Up to 100Hz
EL-USB-CO	Carbon Monoxide Data Logger — **Higher Accuracy Available: EL-USB-CO300**	Carbon Monoxide	0 to 300ppm & 0 to 1000ppm range
EL-USB-TC	Thermocouple Data Logger	Thermocouple	-328 to +1350°F (J, K & T-type)
EL-USB-TC-LCD	Thermocouple Data Logger with LCD	Thermocouple	-328 to +1350°F (J, K & T-type)
EL-USB-TP-LCD	Thermistor Probe Data Logger with LCD — **Higher Accuracy Available: EL-USB-TP-LCD+**	Thermistor	-40 to +257°F
EL-USB-ACT	AC and DC Millivolt Data Logger with Current Clamp Input	Current	0-707mV a.c. & ±1000mV d.c.
EL-Enviropad	Thermometer with Inbuilt Data Logging, Graphing & Spot Measurement	Thermocouple	-328 to +1350°F (J, K & T-type)

EL-GFX Range

Product	Description	Measurement	Range
EL-GFX-1	Temperature Data Logger with Graphic Screen	Temperature	-22 to +176°F range
EL-GFX-2	Temp & RH Data Logger with Graphic Screen — High Accuracy available: EL-GFX-2+	Temp/RH	-22 to +176°F & 0 to 100% RH range
EL-GFX-TC	Thermocouple Data Logger with Graphic Screen	Thermocouple	-328 to +1350°F (J, K & T-type)
EL-GFX-DTC	Dual Channel Thermocouple Data Logger with Graphic Screen	Thermocouple X2	-328 to +1350°F (J, K & T-type)
EL-GFX-TP	Thermistor Probe Data Logger with Graphic Screen — High Accuracy available: EL-GFX-TP+	Thermistor	-40 to +257°F
EL-GFX-DTP	Dual Channel Thermistor Probe Data Logger with Graphic Screen — High Accuracy available: EL-GFX-DTP+	Thermistor X2	-40 to +257°F

GFX Vaccination Range

Product	Description	Measurement	Supplied
EL-GFX-TC-PROBE-G	Single Channel Thermocouple Data Logger with Graphic Screen	Thermocouple	Supplied with K-type glycol bottle
EL-GFX-DTC-PROBE-G	Single Channel Thermocouple Data Logger with Graphic Screen	Thermocouple X2	Supplied with x2 K-type glycol bottle
EL-GFX-TP-PROBE-G	Single Channel Thermistor Data Logger with Graphic Screen	Thermistor	Supplied with thermistor glycol bottle
EL-GFX-DTP-PROBE-G	Single Channel Thermistor Data Logger with Graphic Screen	Thermistor X2	Supplied with x2 thermistor glycol bottle

WiFi Range

Product	Description	Measurement	Range
WiFi-T	WiFi Temperature Data Logging Sensor — High Accuracy available: WiFi-T+	Temperature	-22 to +176°F range
WiFi-TH	WiFi Temperature & Humidity Data Logging Sensor — High Accuracy available: WiFi-TH+	Temp/RH	-22 to +176°F & 0 to 100% RH range
WiFi-TC	Thermocouple Data Logger with Graphic Screen	Thermocouple	-328 to +1350°F (J, K & T-type)
WiFi-TP	Thermistor Probe Data Logger with Graphic Screen — High Accuracy available: WiFi-TP+	Thermistor	-40 to +257°F
WiFi-Alert	WiFi Sensor Monitoring System with Audible & Visual Alarm		

Accessories

Product	Description
EL-DataPad	Handheld Programmer and Data Collector for EL-USB Data Loggers
TP Glycol Probe	NTC Thermistor Probe in Glycol Solution
TC Glycol Probe	K-type Thermocouple Probe in Glycol Solution
Calibration Certificates	NIST-Traceable Test Certificates for EasyLog® Data Loggers

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