



# Temperature & Humidity Monitoring For Museums & Heritage

Product Guide



[www.lascarelectronics.com](http://www.lascarelectronics.com)

# Record & monitor temperature & humidity

While swings in temperature and humidity in normal environments may not be significant, in a museum they can be catastrophic. Exposure to extremes of temperature or humidity can cause textiles, canvas, wood and other materials to quickly deteriorate. Factor in a display case and there may be multiple environments in just one room.

To support the preservation of exhibits and archives, museums have long measured temperature and humidity with data loggers and chart recorders but although accurate, some of these solutions are bulky and expensive.

Lascar's solution? The EasyLog family of temperature and humidity data loggers. An inexpensive series of standalone, USB, WiFi and Bluetooth-enabled sensors allowing discrete temperature and humidity monitoring in museums - locally, remotely and instantly.

# Bluetooth Sensors

The EL-BT-2 data logger measures and stores over 500,000 temperature and humidity readings. The user can easily set up the logger and view downloaded data remotely on any suitable Android device via Bluetooth connection. Easy data download to your Android device without physically connecting to your logger.



# USB Loggers

Lascar's EL-USB range includes discrete, battery powered data loggers that measure and store temperature and humidity readings on-board until data is downloaded via USB. Simple to set-up, just plug any of these devices into the computer USB port and, using Lascar's FREE configuration software, name the device, choose a sampling rate, select high and low alarms if required and a logging start time. The EL-USB range stores up to 32,000 readings, includes displays showing maximum, minimum and last logged values as well as flashing alarm and low battery LEDs.

The EL-GFX family boasts over 250,000 readings per parameter, an on-screen display showing maximum, minimum and last logged values as well as an on-board graph of the data collected. Buttons allow the user to start, stop and restart the logger in the field and alarm breaches can be registered with both LED and audible alarms.

An optional data programmer and collector for the EL-USB family, the **EL-DataPad**, allows programming and data download in the field when use of a PC is inconvenient.



# Your Data, Anytime, Anywhere

All EL-WiFi sensors in the EasyLog range safely and securely transmit their readings to the Cloud. From here you can view and manage multiple rooms, buildings, sites or even global locations from one place.

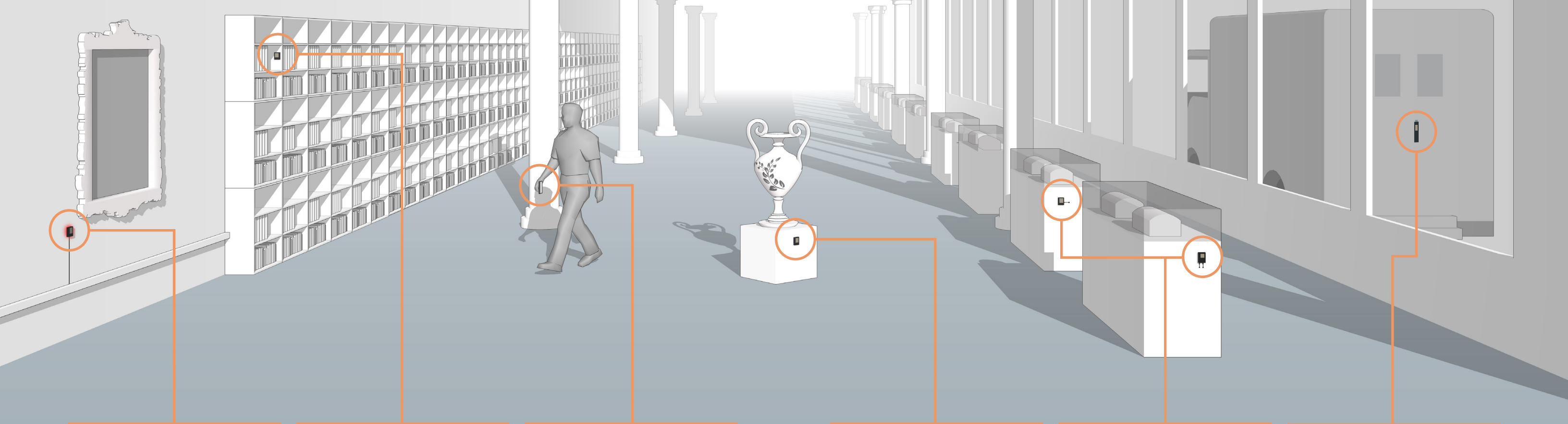
# WiFi Sensors



Our range of EL-WiFi data logging sensors measures temperature and humidity, with a variety of models using different probes and enhanced accuracy options.

These sensors connect directly to an existing WiFi network, transferring data wirelessly to either a PC on the same network, or straight to the EasyLog Cloud for hassle free management.





## Audible & Visual Alerts

The EL-WiFi-Alert is a configurable alarm indicator able to inform key personnel about abnormal temperature and humidity conditions anywhere in your remote monitoring system. Used in conjunction with our EL-WiFi data logging sensors, the EL-WiFi-Alert can be positioned in your office or in any location worldwide to give you advance audible and visual warning of any alarm in your system.

The EL-WiFi-Alert can be used to complement e-mail and SMS alert warnings.

## Ambient Environments

Monitor your exhibition, storage or office spaces remotely using our wireless data logging sensors. Discreetly monitor your environments, protect your exhibits and stored collections and get early warning of potentially damaging conditions.

Real-time and recorded data can also help you ensure that buildings comply with environmental regulations by trouble-shooting heat-loss, or profiling environmental conditions to fully evaluate the performance of heating and ventilation systems.

## Worldwide Notifications

Using the FilesThruTheAir™ remote monitoring system, you can view temperature and humidity data from any internet-enabled device, anywhere in the world. Monitor and manage all of your sensors remotely or locally, or get the EasyLog Cloud in your pocket with our App. The system will alert you with e-mail and SMS messages when user-specified environmental limits are reached, and give you important system status reports.



## Exhibit Monitoring

Our battery powered data logging sensors can be placed on, around or inside an exhibit. Convenient for spot-measurements, on-going analysis or to provide audit checks and evidential reporting for due diligence.

Full data analysis can be carried out by simply connecting the data logger to a computer's USB port, and running our free software.



## Display Case Monitoring

Our product range includes a number of data logging sensors with an external measurement probe, enabling discreet monitoring of the space inside display cases or around any enclosed exhibit. The wired probe can be located inside the display case and the unit itself, positioned out of public view.










## Transit Monitoring

If you need to monitor artifacts in transit or mobile exhibits, our range of USB data loggers offers an ideal solution. These small, cost-effective data loggers can be placed inside crates or exhibit packaging to accurately measure conditions during transit. Recorded data is easily downloaded and used to generate long-term records and reports.




# Product Range








## EL-WIFI SENSORS

Type	Description	Range	Accuracy
 EL-WiFi-T	WiFi Data Logger with internal temperature sensor	-20 to +60°C (-4 to +140°F)	±0.5°C (±1.0°F)
 EL-WiFi-T+	WiFi Data Logger with a higher accuracy internal temperature sensor	-20 to +60°C (-4 to +140°F)	±0.1°C (±0.2°F)
 EL-WiFi-TH	WiFi Data Logger with internal temperature and humidity sensor	-20 to +60°C (-4 to +140°F) 0 to 100 %RH	±0.3°C (±0.6°F) ±2.0%
 EL-WiFi-TH+	WiFi Data Logger with a higher accuracy internal temperature and humidity sensor	-20 to +60°C (-4 to +140°F) 0 to 100 %RH	±0.2°C (±0.4°F) ±1.8%
 EL-WiFi-THP	WiFi Data Logger with external temperature and humidity sensor	-20 to +60°C (-4 to +140°F) 0 to 100 %RH	±0.3°C (±0.6°F) ±2.0%
 EL-WiFi-THP+	WiFi Data Logger with a higher accuracy external temperature and humidity sensor	-20 to +60°C (-4 to +140°F) 0 to 100 %RH	±0.2°C (±0.4°F) ±1.8%
 EL-WiFi-ALERT	Stand alone monitor with audible and visual alarm indicators.		




## EL-BT DATA LOGGERS

Type	Description	Range	Accuracy
 EL-BT-2	Bluetooth temperature and humidity data logger with Android compatibility	-20 to +60°C (-4 to +140°F) 0 to 100 %RH	±0.4°C ±0.7°F

## EL-USB DATA LOGGERS

Type	Description	Range	Accuracy
 EL-USB-1	USB Data Logger with internal temperature sensor	-35 to +80°C (-31 to +176°F)	±1.0°C (±2.0°F)
 EL-USB-1-LCD	USB Data Logger with internal temperature sensor and LCD	-35 to +80°C (-31 to +176°F)	±1.0°C (±2.0°F)
 EL-USB-2	USB Data Logger with internal temperature and humidity sensor	-35 to +80°C (-31 to +176°F) 0 to 100 %RH	±0.3°C (±0.6°F) ±2.0%
 EL-USB-2+	USB Data Logger with higher accuracy internal temperature and humidity sensor	-35 to +80°C (-31 to +176°F) 0 to 100 %RH	±0.2°C (±0.4°F) ±1.8%
 EL-USB-2-LCD	USB Data Logger with internal temperature and humidity sensor and LCD	-35 to +80°C (-31 to +176°F) 0 to 100 %RH	±0.3°C (±0.6°F) ±2.0%
 EL-USB-2-LCD+	USB Data Logger with internal temperature and humidity sensor and LCD	-35 to +80°C (-31 to +176°F) 0 to 100 %RH	±0.2°C (±0.4°F) ±1.8%
 EL-DataPad	Handheld Programmer and Data Collector for EL-USB Data Loggers		

## EL-GFX DATA LOGGERS

Type	Description	Range	Accuracy
 EL-GFX-1	GFX Data Logger with internal temperature sensor and dot-matrix LCD	-30 to +80°C (-22 to +176°F)	±0.5°C (±1.0°F)
 EL-GFX-2	GFX Data Logger with internal temperature and humidity sensor and dot-matrix LCD	-30 to +80°C (-22 to +176°F) 0 to 100 %RH	±0.3°C (±0.6°F) ±2.0%
 EL-GFX-2+	GFX Data Logger with higher accuracy internal temperature and humidity sensor and dot-matrix LCD	-30 to +80°C (-22 to +176°F) 0 to 100 %RH	±0.2°C (±0.4°F) ±1.8%

Please visit our website [www.lascarelectronics.com](http://www.lascarelectronics.com) for more details and to see our full range of products.



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