![Lascar electronics logo]

Environmental Monitoring for Facilities Management
Product Guide

www.lascarelectronics.com

Accurate Monitoring for Increased Efficiency

Environmental monitoring can help to meet the combined challenges of health, comfort, climate and energy efficiency as part of a modern approach to Facilities Management.

Lascar Electronics data logging sensors offer a cost effective, professional way to monitor a range of stimuli from temperature and humidity to carbon monoxide and voltage. With high quality monitoring at a cost well below the industry standard you can easily keep in touch with your systems locally, remotely and instantly.

Bluetooth Sensors

The EL-BT-2 data logger measures and stores over 1 million 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. The unit allows 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's 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 a display showing max, min and last log 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 max, min and last log 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.

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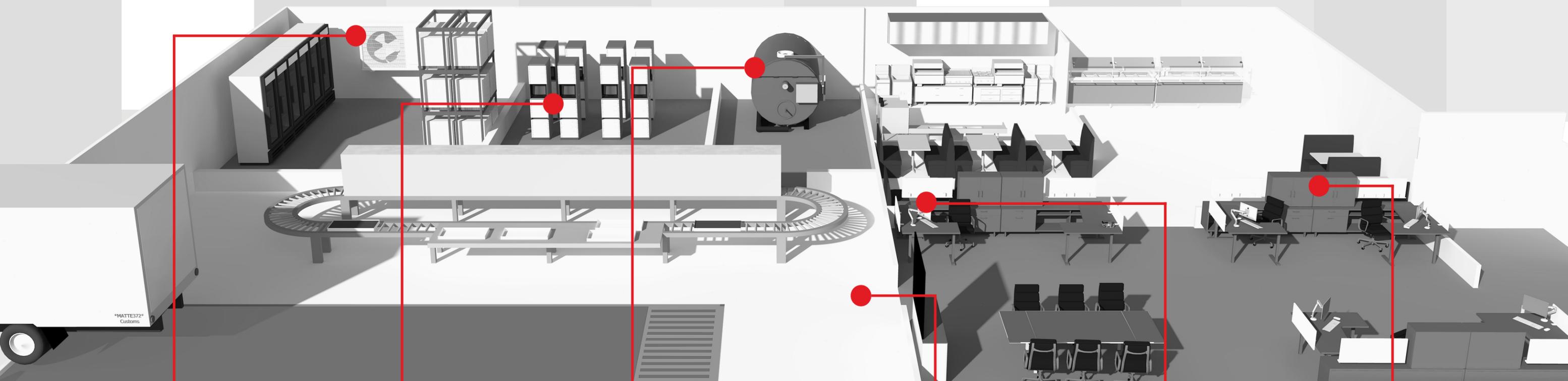
These sensors connect directly to an existing WiFi network, transferring data wirelessly to either a PC on the same network, or straight to the EasyLog Cloud for hassle free management.

Your Data, Anytime, Anywhere

All EL-WiFi sensors in the EasyLog range can safely and securely transmit their readings to the Cloud. From here you can view data, manage multiple devices, their settings and location from any internet-enabled device or via the EasyLog Cloud App.

System Monitoring

Monitor your HVAC system without the need for further infrastructure. Our range of WiFi data logging sensors can be strategically placed around your facility with minimal setup costs and disruption.

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.

Server Room Monitoring

Keeping a close eye on the environment in your data center is of vital importance. Our next generation GFX data loggers offer an ideal solution. These small, cost-effective data loggers can be placed inside your server room to keep constant records of temperature and humidity.

As well as data being easily downloadable through the USB connection, a multifunction LCD screen provides updates and analysis in real time.

Safety Monitoring

Measure and record Carbon Monoxide levels in any given area with our battery powered USB data loggers (0 to 1000ppm).

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

Ambient Environments

Monitor your storage or office spaces to create an optimal working environment using our WiFi data logging temperature and humidity sensors.

These devices connect easily to the EasyLog® Cloud to view, manage and record data from sensors in multiple locations from any internet enabled device, from anywhere in the world.

Worldwide Notifications

Using the EasyLog® Cloud, you can monitor and manage all of your sensors remotely or locally, on any internet-enabled device or using the EasyLog Cloud App. The system will alert you with e-mail and SMS when user-specified environmental limits are reached, and give you important system status reports.

Audible & Visual Alerts

The 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 WiFi data logging sensors, the WiFi-Alert can be positioned in your office or in any location worldwide to give you instant visual and audible alarms in your system.

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

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%RH
	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%RH
	EL-WiFi-TP	WiFi Data Logger with an external thermistor temperature sensor	-40 to +125°C (-40 to +257°F)	±0.6°C
	EL-WiFi-TC	WiFi Data Logger with a external thermocouple temperature probe	-270 to +1300°C (-454 to +2372°F)	±1.5°C
	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 (±0.2°F) ±2.5%RH
	WiFi-DTC	WiFi Data Logger with dual external thermocouple temperature sensors	-270 to +1300°C (-454 to +2372°F)	±1.5°C
	WiFi-DTP+	WiFi Data Logger with dual external thermistor temperature sensor	-40 to +125°C (-40 to +257°F)	±0.2°C
	EL-WiFi-ALERT	Standalone 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	±0.3°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-1-PRO	Industrial USB Data Logger with internal temperature and extended temperature range	-40 to +125°C (-40 to +257°F)	±0.2°C (±0.4°F)
	EL-USB-CO	USB Data Logger with internal Carbon Monoxide sensor	0 to 1000ppm	±6% of reading
	EL-USB-5	USB Data Logger that records or counts events and state changes	2 events / second	±3 secs/24hr
	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	±0.5°C (±1°F) ±2.0%RH
	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 (±2.0°F) ±1.8%RH
	EL-USB-TP-LCD	USB Data Logger with external thermistor temperature sensor with higher accuracy and LCD screen	-40 to +125°C (-40 to +257°F)	±0.1°C (±0.2°F)
	EL-USB-TC	USB Data Logger with external thermocouple temperature sensor	-200 to +1350°C (-328 to +2462°F)	±1°C (2°F)
	EL-USB-TC-LCD	USB Data Logger with external thermocouple temperature sensor and LCD	-200 to +1350°C (-328 to +2462°F)	±1°C (2°F)
	EL-USB-TC-LCD+	USB Data Logger with external thermocouple temperature sensor with higher accuracy and LCD screen	-200 to +1350°C (-328 to +2462°F)	±0.1°C (0.2°F)

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 (-31 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 (-31 to +176°F) 0 to 100%RH	±0.5°C (±2.0°F) ±2.0%RH
	EL-GFX-2+	High Accuracy 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%RH
	EL-GFX-TC	GFX Data Logger with external thermocouple temperature sensors and dot-matrix LCD	-200 to +1350°C (-328 to +2462°F)	±0.5°C (±0.9°F)
	EL-GFX-DTC	GFX Data Logger with dual external thermocouple temperature sensors and dot-matrix LCD	-200 to +1350°C (-328 to +2462°F)	±0.5°C (±0.9°F)
	EL-GFX-DTP	GFX Data Logger with dual external thermistor temperature sensors and dot-matrix LCD	-40 to +125°C (-40 to +257°F)	±0.1°C (±0.2°F)

EnviroPad-TC

The EnviroPad is a robust, multi-functional hand-held thermometer operated manually using the touchscreen, taking and recording temperature readings via the attached thermocouple probe*. The EnviroPad has three functions:

Checklist

In Checklist mode you are able to create a unique list of items using our free PC software. This function suits applications where the same items need to be regularly checked.

Spot Measurements

The EnviroPad can be used as a thermometer to manually capture temperature readings.

Data Logging

The EnviroPad can be set-up to take temperature readings automatically at pre-determined intervals.

*A variety of thermocouple probes are available to suit your application.

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