

WiFi Data Logging Sensors

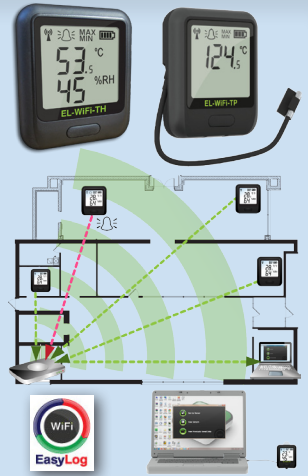
Our wireless data logging sensors can measure the temperature and/or humidity of the environment in which the unit or probe(s) are situated. All models are freestanding but can be attached to a wall or surface using the bracket provided and can be clipped in and out of the bracket as required. The LCD display includes several features such as Max and Min readings, low battery indicator, WiFi connection and signal strength.

Data is streamed wirelessly and can be viewed on a PC using the free EasyLog WiFi¹ software (available for download) or on the FilesThruTheAir™ Cloud. During configuration the sensor will search for an existing wireless network whilst physically connected to the PC. It can then be placed anywhere within range of the network. If the sensor temporarily loses connectivity with the network, it will log readings until the connection is re-established (max 30 days at 10 second sample interval).

The EasyLog WiFi¹ software will allow set-up, data logging and data review. Set-up features include sensor name, °C/°F, sample rate, transmission period and high/low alarms. Once configured, historic data can be viewed via the graphing tool or exported in various formats.

These are low-power battery devices, with an internal rechargeable lithium polymer battery. The battery can be recharged via a PC using the USB cable provided or via a USB +5V wall adapter or portable USB battery pack (available separately). The sensors are IEEE 802.11b compliant, support WEP, WPA/WPA2 encryption and enterprise networks.

- Wirelessly stream and view data via WiFi on a PC or FilesThruTheAir™ Cloud
- Easy setup using free EasyLog WiFi PC software
- View and analyse multiple sensors using free PC software, including graphing of historic data
- Rechargeable internal lithium polymer battery
- Configurable high and low alarms with indicator



HDT-WIFI-T / HDT-WIFI WiFi Temperature/Humidity Data Logging Sensor

Measure the temperature (HDT-WIFI-T) or the temperature and humidity (HDT-WIFI) of the environment in which these sensors are situated.

Typically accurate to $\pm 0.3^{\circ}\text{C}$ ($+5^{\circ}\text{C}$ to $+60^{\circ}\text{C}$) and $\pm 2\% \text{RH}$ (10 to 90 %RH @ 25°C). The sensors have a protection rating of IP55.

- Temperature and Temperature/Humidity options
- Temperature measurement range -20°C to $+60^{\circ}\text{C}$ (-4°F to $+140^{\circ}\text{F}$)
- 0 to 100% humidity measurement range (HDT-WIFI only)
- Supplied with wall bracket and USB cable

Technical Details	
Battery Life ²	> 6 months typical under ideal conditions
USB Supply Voltage	4.5V D.C. (min), 5V D.C. (typical), 5.5V D.C. (max)
Operating Temperature Range	-20°C to $+60^{\circ}\text{C}$ (-4°F to $+140^{\circ}\text{F}$)
Logging Period (user configurable)	Every 10 seconds (min), 10 minutes (typical), 12 hours (max)
Transmission Period (user configurable)	1 minute (min), 1 hour (typical), 24 hours (max)
Temp. Measurement Range	-20°C to $+60^{\circ}\text{C}$ (-4°F to $+140^{\circ}\text{F}$)
Temp. Measurement/Display Resolution	0.1°C (0.2°F) / 0.5°C
Temp. Accuracy	$\pm 0.3^{\circ}\text{C}$ ($+5^{\circ}\text{C}$ to $+60^{\circ}\text{C}$) typical, $\pm 0.8^{\circ}\text{C}$ (-20°C to $+60^{\circ}\text{C}$) max
Humidity Measurement Range	0 to 100 %RH
Humidity Measurement/Display Resolution	$1.0\% \text{RH}$ / $1.0\% \text{RH}$
Humidity Accuracy (@ $+25^{\circ}\text{C}$)	$\pm 2\% \text{RH}$ (10 to 90 %RH) typical, $\pm 5\% \text{RH}$ (0 to 100 %RH) max
Dimensions (excluding bracket)	82mm (H) x 70mm (W) x 22mm (D)

HDT-WIFI-T
(Temperature)



HDT-WIFI
(Temperature/Humidity)



order code	Lascar code	EL-WIFI-T	EL-WIFI-TH
	Thermosense code	HDT-WIFI-T	HDT-WIFI

HDT-WIFI-Alert Audible and Visual Alarm for WiFi Data Logging Sensors

Standalone monitoring system for all HDT-WIFI sensors. The unit will receive alarm messages from any HDT-WIFI sensor connected to the same wireless network and indicates an alarm activation using bright LEDs with a choice of nine alarm tones. The unit can be attached to a wall or flat surface using the bracket provided, and has a protection rating of IP44 (with cable connected).

- Detects alarms from any HDT-WIFI sensor device on the same wireless network
- Audible alarm with built-in speaker (SPL 100dBa at 1m), visual alarm via bright LEDs
- Continues to work when the PC is turned off
- Supplied with wall mounting bracket and USB cable (type A to type B)

Technical Details	
USB Supply Voltage	4.5V D.C. (min), 5V D.C. (typical), 5.5V D.C. (max)
Sound Output	100 dBA at 1m
Operating Temp. Range	-20°C to $+60^{\circ}\text{C}$ (-4°F to $+140^{\circ}\text{F}$)
Dimensions	82mm x 70mm x 36mm



Audible and visual alarm

order code	Lascar code	EL-WIFI-Alert
	Thermosense code	HDT-WIFI-Alert

¹ EasyLog WiFi software is downloadable for free via a supplied website link. Please visit our website for latest software compatibility information.

² Battery life is dependent on a variety of factors such as transmission period, WiFi encryption method, sampling rate, operating temperature etc.

