

## 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 WiFi<sup>1</sup> 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 WiFi<sup>1</sup> 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 802.11bgn\* (2.4GHz) compliant, support WEP, WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

- 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 @  $25^{\circ}\text{C}$ ). The sensors have a protection rating of IP55.

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

HDT-WIFI-T  
(Temperature)



HDT-WIFI  
(Temperature/Humidity)



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

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

\* MAC Address starting 98:8B:AD:2 only

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

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