

# EL-WiFi-DTP+

## Dual Channel External Thermistor WiFi Temperature Sensor



- Measures temperature range -40°C to +125°C (-40°F to +257°F)
- Dual channel recording through two external thermistor probes
- Wirelessly stream and view data on the FilesThruTheAir™ Cloud, App or on a PC
- Sensor set up is easy using free PC software
- View and analyse multiple sensors, including graphing of historic data
- Configurable high and low alarms with indicator
- Sensor memory stores data even if WiFi is temporarily disconnected



The EL-WiFi-DTP+ datalogging sensor measures the temperature of the environment in which the two probes are situated. This high accuracy sensor is typically accurate to  $\pm 0.2^{\circ}\text{C} / \pm 0.4^{\circ}\text{F}$  (+15° to +80°C/ -5° to +176°F). The unit is freestanding, but can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required. The probes are connected to the sensor via a 160mm Y splitter cable which is provided.

Data is streamed wirelessly to either the FilesThruTheAir™ Cloud or a local PC. 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 EL-WiFi-DTP+ has a protection rating of IP43 and the probes IP67. The sensor is IEEE 802.11b compliant, supports WEP, WPA/WPA2 encryption and enterprise networks.

### SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
<b>Battery life</b>		>6		Months
<b>USB supply voltage</b>	4.5	5	5.5	Vdc
<b>Operating temperature range</b>	-20 (-4)		+60 (+140)	°C (°F)
<b>Logging period (user configurable)</b>	10 sec	10 min	12 hrs	
<b>Transmission period (user configurable)</b>	1 min	1 hr	24 hrs	
<b>Temperature measurement range</b>	-40 (-40)		+125 (+257)	°C (°F)
<b>Temperature measurement resolution</b>		0.01 (0.02)		°C (°F)
<b>Temperature display resolution</b>		0.01		°C
<b>Temperature accuracy</b>		$\pm 0.2^{\circ}\text{C} / \pm 0.4^{\circ}\text{F}$ (-15 to +80°C/ +5 to +158°F)	$\pm 0.6^{\circ}\text{C} / \pm 1.2^{\circ}\text{F}$ (-40 to +125°C/ -40 to +257°F)	°C/°F
<b>Dimensions</b>	82 x 70 x 36mm (3.22 x 2.75 x 1.41")			

### ACCESSORIES

<b>PSU-5VDC-USB-USA</b>	USB Mains Power Adapter for USA
<b>PSU USB-UK</b>	USB Mains Power Adapter for UK
<b>PSU USB-EU</b>	USB Mains Power Adapter for EU
<b>EL-WiFi-Alert</b>	Audible and Visual Alarm for EL-WiFi Data Logging Sensors
<b>EL-PROBEA-3.0M-TP-GLY</b>	External Thermistor Glycol Probe

### INCLUDED IN THE BOX

<b>EL-WIFI WALL BRACKET</b>	Wall mounting bracket for EL-WiFi sensors
<b>2x EL-PROBEA-3.0M-TP+</b>	3m Thermistor Probes
<b>CABLE USB A-MICRO B</b>	USB Type A to Micro B



### CALIBRATION CERTIFICATES NOW AVAILABLE

Lascar now offers a Traceable Calibration Certificate Service on Temperature Data Loggers. Using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards. For more information please see [www.lascarelectronics.com](http://www.lascarelectronics.com).



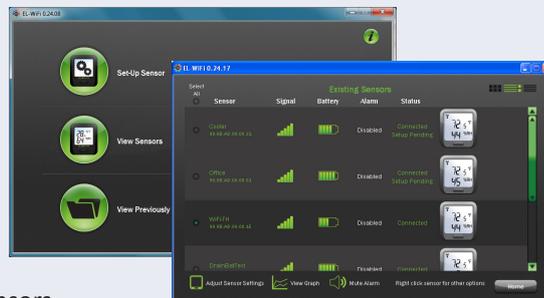
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### EL-WiFi-WIN

Lascar's WiFi software is available as a free download from: [www.lascarelectronics.com/software/easylog-wifi](http://www.lascarelectronics.com/software/easylog-wifi). Easy to install and use, EL-WiFi-WIN allows easy connection of sensors to a WiFi network. The user can select where data is stored - the PC or the Cloud.



### EASYLOG CLOUD - Powered by FilesThruTheAir™

Interact with sensors via any internet-enabled device. Manage and monitor sensors, access event logs and set up email alerts. A Cloud account is created during the WiFi sensor set-up process using EL-WiFi-WIN with the choice of three account types depending on which features are required.

### FilesThruTheAir™ App

For users on-the-go, download the FilesThruTheAir™ app on the App Store and GooglePlay. This app extends Cloud access and visibility to smartphone and tablet users, delivering an enhanced user experience and features otherwise unavailable via the traditional mobile web interface.



Download the latest version of the software free of charge from [www.lascarelectronics.com/software/easylog-wifi](http://www.lascarelectronics.com/software/easylog-wifi)

### Battery Life and Power Supply

The battery can be recharged (unit must be between 0 - 40 °C) via a PC, a USB +5V wall adapter, or a portable USB battery pack using the USB lead provided. It can also be permanently powered by a USB wall adapter or USB battery pack. Readings may be affected while the internal battery is being charged. However, once charged, continued connection of the charger will have no effect.

Battery life is dependent on: transmission period, WiFi encryption method, WiFi encryption key rotation frequency (determined by the router/access point), signal strength between router/access point and WiFi device, presence volume and type of WiFi traffic from other devices, sample rate and operating temperature.

Specifications liable to change without prior warning