EL-WiFi-DTC

Dual Channel External Thermocouple WiFi Temperature Sensor

- Measures temperature range of -200°C to +1350°C (-328°F to +2462°F) (probe dependent)
- Dual channel recording through two external thermocouple probes
- Wirelessly stream and view data on the FilesThruTheAir™ Cloud 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

The EL-WiFi-DTC datalogging sensor measures the temperature of the environment in which the probes are situated. This sensor is typically accurate to ±1.5°C/ ±1.5°F (with the K type probes supplied). 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 using the industry standard miniature thermocouple connector, which allows alternative K, N, J and T type probes to be used.

The thermocouples can be used in a wide range of extreme temperature situations e.g. manufacturing processes, cold storage and hot storage.

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. Once connected it can then be placed anywhere within range of the network. If the sensor temporarily loses connectivity with the network or PC, it will log readings until the connection is re-established (max 30 days at 10 second sample interval).

The EL-WiFi-DTC has a protection rating of IP43. The sensor is IEEE 802.11b compliant, supports WEP, WPA/WPA2 encryption and enterprise networks.

SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
Probe measurement range	K-type (supplied) 0 to 200°C K-type -200 to +1350°C J-type -200 to +1190°C T-type -200 to +390°C		+400 (+752) +1350(+2462) +1190(+2174) +390 (+734)	°C (°F)
USB supply voltage	4.5		5.5	Vdc
Operating temperature range	-20 (-4)		+60 (+140)	°C (°F)
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement range	-270 (-454)		+1300 (+2372)	°C (°F)
Temperature measurement resolution		0.1 (0.2)		°C (°F)
Temperature display resolution		0.1		°C
Temperature accuracy		±1.5° (±3)		°C (°F)
Dimensions	82 x 70 x 36mm (3.22 x 2.75 x 1.41")			

ACCESSORIES

PSU-5VDC-USB-USA	USB Mains Power Adapter for USA
PSU USB-UK	USB Mains Power Adapter for UK
PSU USB-EU	USB Mains Power Adapter for EU
EL-WiFi-Alert	Audible and Visual Alarm for EL-WiFi Data Logging Sensors

INCLUDED IN THE BOX

EL-WIFI WALL BRACKET	Wall mounting bracket for EL-WiFi sensors
2x K-TYPE PROBE 1M5	1.5m K-type thermocouple with stainless steel probe (Class 2)
CABLE USB A-MICRO 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**.

EL-WiFi-DTC
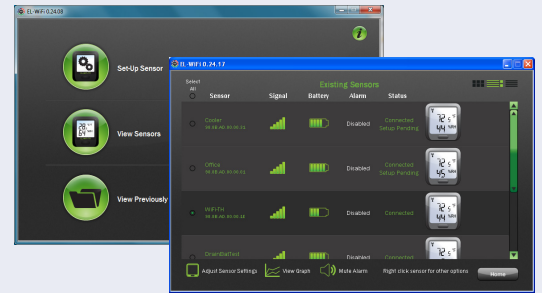## Dual Channel External Thermocouple WiFi Temperature Sensor

EL-WiFi-WIN

Lascar's WiFi software is available as a free download from www.easylogwifi.com. 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 Android users on–the-go, download the FilesThruTheAir™ app on GooglePlay. This app extends Cloud access and visibility to Android phone 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.easylogwifi.com

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

www.lascarelectronics.com