

Lascar EL-WiFi-TPX-

Lascar EL-WiFi-TPX+ WiFi Wireless High Accuracy Temperature Data Logger User Manual

Model: EL-WiFi-TPX+
Brand: Lascar Electronics

1. INTRODUCTION

The Lascar EL-WiFi-TPX+ is a high-accuracy wireless temperature data logger designed for remote environmental monitoring. It utilizes an external thermistor probe to measure temperatures within a range of -40°C to +125°C (-40°F to +257°F). Data is uploaded to the EasyLog Cloud via a standard WiFi network, providing accessible monitoring from any internet-enabled device.

Key Features

- Measures and records temperature using an external thermistor probe.
- Wide temperature measurement range of -40°C to 125°C with typical $\pm 0.2^\circ\text{C}$ accuracy.
- Equipped with audio (sounder) and visual (blinking LED) alarms for temperature breaches.
- Enables monitoring on any device (including Android and iOS) with a web browser via the EasyLog Cloud.
- Internal data storage ensures no data loss during WiFi disconnections, with automatic upload upon reconnection.
- Remote configuration and alarm alerts via EasyLog Cloud.

2. PACKAGE CONTENTS

- EL-WiFi-TPX+ Temperature Data Logger
- 3-Meter Thermistor Probe
- Rechargeable Lithium Battery (pre-installed or separate)
- Micro USB Cable
- Wall Mounting Bracket

3. SETUP GUIDE

3.1 Initial Device Overview



Image 1: Front view of the EL-WiFi-TPX+ data logger showing the digital display with temperature reading, WiFi signal indicator, alarm light indicator, and battery level. The external thermistor probe is visible on the right side.



Image 2: Side view of the EL-WiFi-TPX+ data logger, highlighting its compact design and the connection point for the external thermistor probe.

3.2 Battery Installation and Charging

The EL-WiFi-TPX+ comes with a rechargeable lithium battery. Ensure the battery is fully charged before initial use. Connect the device to a standard USB power source using the supplied Micro USB cable. The battery indicator on the display will show charging status.

3.3 Connecting the Thermistor Probe

Carefully insert the 3-meter thermistor probe into the designated port on the side of the data logger. Ensure a secure connection for accurate temperature readings.



Image 3: Close-up view of the EL-WiFi-TPX+ data logger showing the external thermistor probe securely connected to the device, ready for temperature measurement.

3.4 WiFi Network Configuration

The EL-WiFi-TPX+ connects to your WiFi network to upload data to the EasyLog Cloud.

1. Download the EasyLog Cloud App (available for Android and iOS) or visit the EasyLog Cloud website.
2. Follow the on-screen instructions to register your device and connect it to your local WiFi network. This typically involves putting the device into setup mode and entering your network credentials.
3. Ensure the device is within range of your WiFi router for stable connection.



Image 4: Two EL-WiFi-TPX+ data loggers, one showing a temperature reading and the other indicating

wireless communication, demonstrating the device's ability to connect and transmit data wirelessly.

4. OPERATION

4.1 Monitoring Temperature Data

Once configured, the device will begin measuring and logging temperature data. The current temperature is displayed on the device's screen.



Image 5: Front view of the EL-WiFi-TPX+ data logger displaying a temperature reading of 5.58°C on its digital screen, indicating active temperature monitoring.

4.2 Accessing Data via EasyLog Cloud

All logged data is periodically uploaded to the EasyLog Cloud.

1. Log in to your EasyLog Cloud account via the app or web browser.
2. View real-time data, historical graphs, and download data logs.
3. Configure logging intervals, alarm thresholds, and notification settings remotely.

4.3 Alarm Functions

The EL-WiFi-TPX+ features configurable high and low temperature alarms.

If a temperature breach occurs, the device will activate its visual (blinking LED) and audio (sounder) alarms. Email alerts can also be configured through the EasyLog Cloud.



Image 6: Front view of the EL-WiFi-TPX+ data logger with a red glow around its edges, indicating an active alarm condition, alongside a temperature reading of 8.23°C.

5. MAINTENANCE

5.1 Cleaning

Wipe the device clean with a soft, damp cloth. Do not use abrasive cleaners or immerse the device in water.

5.2 Battery Care

To prolong battery life, avoid extreme temperatures and fully discharge and recharge the battery periodically if the device is stored for extended periods.

5.3 Probe Care

Handle the thermistor probe carefully. Avoid bending or kinking the cable excessively. Ensure the probe tip is clean for accurate readings.

6. TROUBLESHOOTING

6.1 Device Not Connecting to WiFi

- Ensure the device is within range of your WiFi router.
- Verify WiFi network credentials entered during setup.
- Check if your WiFi network is 2.4GHz (5GHz networks may not be supported).
- Restart the data logger and your WiFi router.

6.2 Inaccurate Temperature Readings

- Ensure the thermistor probe is securely connected.
- Check if the probe tip is clean and free from obstructions.
- Verify the probe is placed in the environment you wish to monitor, away from direct heat sources or

drafts.

- Consider recalibration if persistent inaccuracies are observed.

6.3 Alarms Not Triggering

- Verify alarm thresholds are correctly set in the EasyLog Cloud.
- Check if the device has a stable WiFi connection to receive updated settings.
- Ensure the device's sounder and LED are not physically obstructed.

7. TECHNICAL SPECIFICATIONS

Feature	Detail
Temperature Measurement Range	-40°C to +125°C (-40°F to +257°F)
Accuracy	Typical $\pm 0.2^{\circ}\text{C}$
Connectivity	WiFi
Power Source	Rechargeable Lithium Polymer Battery
Included Components	Data Logger, 3-Meter Thermistor Probe, Micro USB Cable, Wall Bracket
Display Type	Digital
Outer Material	Polycarbonate (PC)
Product Care	Wipe Clean
Manufacturer	Lascar Electronics
ASIN	B08WRK5PN2
First Available	April 10, 2020
Item Length	118.11 Inches

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Lascar Electronics website or contact their customer service directly. Specific warranty terms may vary by region and purchase date.

Related Documents

[pdf] Specifications

EL P VACX Downloads and Guides for the FilesThruTheAir Product Range dl0256414001598337813

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EL-P-VACX High-Accuracy Digital Calibratable Vaccine Temperature Probe For Use With EL-WiFi-VACX Data Loggers The EL-P-VACX is a high-accuracy digital calibratable temperature probe in a glycol buffer solution that can be used to replace an existing EL-WiFi-VACX probe without the need to remove the ...

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EL-WiFi-TP External Thermistor WiFi Temperature Sensor Thermistor probe temperature measurement range -40 to 125C Wirelessly stream and view data on the EasyLog Cloud, App or on a PC Easy sensor set-up using free PC sowae applicaon View and analyse muple sensors, including graphing of histor...

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EL-P-TPX High-Accuracy Digital Calibratable Temperature Probe For Use With EL-WiFi-TPX Data Loggers The EL-P-TPX is a high-accuracy digital calibratable temperature probe that can be used to replace an existing EL-WiFi-TPX probe without the need to remove the data logger from service. This is th...

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EL-P-VACX
High-Accuracy Digital Calibratable Vaccine Temperature Probe
For Use With EL-WiFi-VACX Data Loggers

The EL-P-VACX is a high-accuracy digital calibratable vaccine temperature probe in a glycol buffer solution that can be used to replace an existing EL-WiFi-VACX probe without the need to remove the data logger from service. This is the ideal solution for those who need to replace a probe without the need to remove the data logger from service.

Parameter	Minimum	Typical	Maximum	Unit
Temperature measurement range	-40 to 125	-40 to 125	-40 to 125	°C / °F
Temperature accuracy	±0.1	±0.1	±0.1	°C / °F
IP Rating	IP67	IP67	IP67	
Cable length	2m	2m	2m	

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EL-WiFi-TP
External Thermistor WiFi Temperature Sensor

Thermistor probe temperature measurement range -40 to +125°C

- Wirelessly stream and view data on the EasyLog Cloud, App or on a PC
- Easy sensor set-up using free PC software application
- View and analyse multiple sensors, including graphing of history data
- Configurable high and low alarms with notification
- Sensor memory stores all data even if WiFi is temporarily disconnected

The EL-WiFi-TP measures the temperature of the environment in which the probe is situated. Data is streamed wirelessly over any available WiFi network and can be viewed on a PC using free software or on the EasyLog Cloud App.

To configure the sensor for use on a glass wireless network, either connect it via USB to a PC running EasyLog WiFi software, or configure wireless using the EasyLog Cloud app on a mobile phone with access to the network. The sensor can then be placed anywhere within range of the network. If the sensor temporarily loses connectivity with the network, it will continue to store data locally until it is able to communicate again with the PC application or EasyLog Cloud. The EL-WiFi-TP is also available with a 4G LTE module.

The sensor is IEEE 802.11n (2.4GHz) compliant, supports WPA/WPA2 encryption and external networks (P2P, TLS, RADIUS).

The EL-WiFi-TP has a potential rating of IP67 and the probe IP67. The unit is IP67 rated, but can be attached to a wall or surface using the bracket provided. The unit can be dipped in and out of the bracket as required.

Parameter	Minimum	Typical	Maximum	Unit
Temperature range	-40	-40	125	°C
Temperature accuracy	±0.1	±0.1	±0.1	°C
Temperature range	-40	-40	125	°F
Temperature accuracy	±0.1	±0.1	±0.1	°F
Temperature range	-40	-40	125	°C
Temperature accuracy	±0.1	±0.1	±0.1	°C
Temperature range	-40	-40	125	°F
Temperature accuracy	±0.1	±0.1	±0.1	°F

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EL-WiFi-TPX
High-Accuracy Digital Calibratable Temperature Probe For Use With EL-WiFi-TPX Data Loggers

The EL-WiFi-TPX is a high-accuracy digital calibratable temperature probe that can be used to replace an existing EL-WiFi-TPX probe without the need to remove the data logger from service. This is the ideal solution for those who need to replace a probe without the need to remove the data logger from service.

Parameter	Minimum	Typical	Maximum	Unit
Temperature measurement range	-40 to 125	-40 to 125	-40 to 125	°C / °F
Temperature accuracy	±0.1	±0.1	±0.1	°C / °F
IP Rating	IP67	IP67	IP67	
Cable length	2m	2m	2m	

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EL-P-TPX+
High-Accuracy Digital Calibratable Temperature Probe For Use With EL-WiFi-TPX Data Loggers

The EL-P-TPX+ is a high-accuracy digital calibratable temperature probe that can be used to replace an existing EL-WiFi-TPX probe without the need to remove the data logger from service. This is the ideal solution for those who need to replace a probe without the need to remove the data logger from service.

Parameter	Minimum	Typical	Maximum	Unit
Temperature measurement range	-40 to 125	-40 to 125	-40 to 125	°C / °F
Temperature accuracy	±0.1	±0.1	±0.1	°C / °F
IP Rating	IP67	IP67	IP67	
Cable length	2m	2m	2m	

EasyLog
www.lascarelectronics.com/data-loggers

1.800.544.2843 www.calcert.com sales@calcert.com

1.800.561.8187 www.itm.com information@itm.com

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Issue 1.0: 05/2012 Page 2 of 4

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Probes

Thermistor Probes (Temperature)

- Compatible with all EasyLog thermistor probe data logger data loggers
- Variety of measurement ranges covering -40 to +125°C temperature range

Lascar's range of thermistor probes are suitable for use with all EasyLog thermistor probe data loggers. They incorporate high accuracy thermistors for temperature ranging extremes incorporated in a variety of diameters, steel and brass. The probes can be used in a wide range of applications including manufacturing processes, food and food storage and environmental monitoring. The 10m cable length and stainless steel cable makes the probes suitable for use within a clean measurement environment e.g. refrigerator, incubator etc.



EL-P-TP

Standard thermistor probe to get you started

- 40 to 125°C (-40 to 257°F) measurement range
- Accuracy of ±0.5°C (±0.9°F) at 25°C (±0.9°F) at 25°C
- Stainless steel, 3mm length stainless steel cable
- Isolated probe as per cable



For use with:

- EL1000-100
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P

EL-P-TP+

High accuracy thermistor probe

- 40 to 125°C (-40 to 257°F) measurement range
- Accuracy of ±0.1°C (±0.2°F) at 25°C (±0.2°F) at 25°C
- Stainless steel, 3mm length stainless steel cable
- Isolated probe as per cable



For use with:

- EL1000-100
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P

EL-P-VAC

High accuracy vacuum temperature probe

- 40 to 125°C (-40 to 257°F) measurement range
- Accuracy of ±0.1°C (±0.2°F) at 25°C (±0.2°F) at 25°C
- Stainless steel, 3mm length stainless steel cable
- Isolated probe as per cable



For use with:

- EL1000-100
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P
- EL1000-100P



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Probes easylog data logger iss3 04 2024 lascarelectronics |||

Probes Thermistor Probes Temperature Compatible with all EasyLog thermistor probe data loggers listed below Variety of measurement ranges covering -40 to 125C temperature range Lascar s range of thermistor probes are suitable for use with all EasyLog thermistor probe data loggers. They incorpor...

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EL-WiFi-TPX+

Wi-Fi Connected High-Accuracy Temperature Data Logger with Alarm Warning Light and Sounder


- Temperature measurement range -40 to +125°C (-40 to +257°F)
- Configurable alarm levels with on-board warning light and sounder
- Highly configurable probe with 3m cable stainless steel cable
- No need to remove from service for recalibration, just replace the probe
- Extensive range of new data for the EasyLog Cloud, and configure alarm email notifications
- View and analyse multiple devices, including graphing of historic data
- Easy device setup using the EasyLog software or mobile app
- Device memory stores all data even if Wi-Fi is temporarily disconnected

The EL-WiFi-TPX+ measures the temperature of the environment in which the probe is situated. Data is streamed wirelessly over an optional Wi-Fi network and can be viewed on any internet-enabled device, via browser or free mobile app.

Device setup and connection to a Wi-Fi network and the EasyLog Cloud are simple, just download the free EasyLog Wi-Fi PC software or the free EasyLog Cloud mobile app and follow the device setup instructions. The device can be placed anywhere within range of the Wi-Fi network. If the device temporarily loses connectivity with the Wi-Fi network, it will log readings until it is able to communicate again with the EasyLog Cloud (max. 30 days of 30 second sample intervals).

The device is ENEC 1200 (2.4GHz) compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (RADIUS, TLS, 802.1X).

The EL-WiFi-TPX+ has a protection rating of IP67, and the probe IP67. The device is free-standing, but can be attached to a wall or surface using the bracket provided, and dip-in or out of the bracket as required. This device is equipped with a translucent back to show a red flashing indicator when it is in an alarm state as well as a red light volume capable to alert people in case of emergency.



SPECIFICATIONS

Parameter	Minimum	Typical	Maximum	Unit
Battery life*	-	10	10	Months
USB cable length (optional)	0.5	1.0	1.5	M
Operating temperature range	-40°C	-	+125°C	°C/°F
Lightly used and non-configurable	10mm	10mm	10mm	mm
Temperature range (configurable)	-40°C	-	+125°C	°C/°F
Temperature measurement range	-40°C	-	+125°C	°C/°F
Temperature measurement resolution	0.1°C	0.1°C	0.1°C	°C/°F
Temperature data resolution	0.1°C	0.1°C	0.1°C	°C/°F
Temperature accuracy**	±0.1°C	±0.1°C	±0.1°C	°C/°F
IP Rating	IP67	IP67	IP67	
Dimensions	80 x 50 x 25mm	80 x 50 x 25mm	80 x 50 x 25mm	mm

*Typical life for battery life is based on a range of 0.1°C to 0.5°C.


**Accuracy is based on the probe's accuracy and the accuracy of the EasyLog Cloud software.

ACCESSORIES

Accessory	Part Number
Replacement High Accuracy Stainless Steel Thermistor Probe	EL-P-TPX+
USB Cable (USB-A to USB-B)	EL-P-TPX+
USB Cable (USB-A to USB-B)	EL-P-TPX+
USB Cable (USB-A to USB-B)	EL-P-TPX+
USB Cable (USB-A to USB-B)	EL-P-TPX+
USB Cable (USB-A to USB-B)	EL-P-TPX+
USB Cable (USB-A to USB-B)	EL-P-TPX+
USB Cable (USB-A to USB-B)	EL-P-TPX+
USB Cable (USB-A to USB-B)	EL-P-TPX+
USB Cable (USB-A to USB-B)	EL-P-TPX+

INCLUDED IN THE BOX


Item	Quantity
EL-WiFi-TPX+	1
High Accuracy Stainless Steel Thermistor Probe	1
USB Cable (USB-A to USB-B)	1
USB Cable (USB-A to USB-B)	1
USB Cable (USB-A to USB-B)	1
USB Cable (USB-A to USB-B)	1
USB Cable (USB-A to USB-B)	1
USB Cable (USB-A to USB-B)	1
USB Cable (USB-A to USB-B)	1
USB Cable (USB-A to USB-B)	1



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5 Commonwealth Ave
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