EL-IOT-SP-TH+



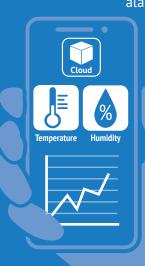
- Measures temperature from -30 to +80°C
- Measures humidity from 0 to 100%RH
- Real-time email and SMS alarms, with local audible and visual indication
- Data automatically uploads to the EasyLog Cloud in real time
- Hot-swappable smart probe eliminates the need to disconnect and return your data logger for calibration
- Industry-leading accuracy
- Internal memory for 300,000 readings plus unlimited secure Cloud storage

This advanced high accuracy temperature and humidity data logger can be placed anywhere within range of your Wi-Fi network, continually monitoring and recording your data to the EasyLog Cloud. You can then use the Cloud to access, analyse and share your data from any internet-connected device worldwide.

If Wi-Fi signal is lost, the logger continues logging to the internal memory, and as soon as Wi-Fi contact is restored it automatically reconnects to the Cloud and uploads the stored data. the stored data.

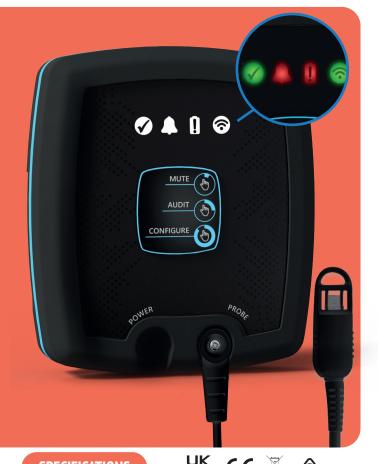
Setup is quick and simple with the EasyLog Cloud app for Android and iOS.

The data logger can be configured with high and low alarms. If one of your parameters is breached, an alarm is instantly activated. Alarm options include email alerts and SMS messages, which can be sent to multiple contacts. There are also visual



alarm indicators and sounder alerts on the device. Audit marks can be created in the data at the touch of a button.

> The device can be powered using the batteries supplied or with a mains adapter (sold separately), and is provided with a wall mountable bracket for easy installation.



SPECIFICATIONS	SA (E 🖄 🖄		
Temperature Range	-30 to +80°C (-22 to +176°F)		
Temperature Resolution	0.01°C		
Temperature Accuracy*	±0.2°C (+5 to +60°C) (±0.4°F (+41 to +140°F)) (Typical) ±0.8°C (-20 to +80°C) (±1.5°F (-4 to +176°F)) (Maximum)		
Humidity Range	0 to 100%RH		
Humidity Resolution	0.1%		
Humidity Accuracy (At 25°C)*	±1.8%RH (20 to 80) (Typical) ±4%RH (0 to 100) (Maximum)		
Logging Period	10 seconds to 12 hours (user selectable)		
Transmission Interval	1 minute to 24 hours (user selectable)		
Battery Life	6 months (Typical)		
Battery Type	4 x AA 1.5V batteries (or via mains adapter)		
Dimensions	94 x 83 x 31mm		
Probe Cable Length	2m (79")		
Operating Temperature	-18 to +55°C (0 to +131°F) (batteries)		
Range of Logger	-20 to +60°C (-4 to +140°F) (power supply)		
Environmental Rating	IP54 (splash proof)		

*Refer to Sensor Accuracy & Information





EL-IOT-SP-TH+

EasyLog Cloud Your data, anytime, anywhere.



Easily access your most important data, anywhere



Automatic email alerts and SMS



Graph, review and analyse your data

EasyLog Cloud App

Available for Android and

Apple devices, the EasyLog

Cloud app enables you to

monitor and manage your

wireless sensors on the go.





Remotely manage all of your data logger devices



event log system

GET IT ON

Google Play

Download on the

App Store



Configurable user profiles

Access your vital data from any internetenabled computer, tablet or mobile device with EasyLog Cloud. From single locations to worldwide operations, the system is perfectly scalable and can run through your existing wireless networks.

Critical events are notified to specific users in seconds via an alarm system that's easily tailored to your exact requirements.

Data is accessible 24/7 and powerful online tools make it simpler than ever to view, compare and analyse readings. An audit trail is automatically created that includes both system and data events.

Starter and Professional accounts are available, always flexible and with no locked-in contracts.



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40.8



EL-IOT-SP-TH+

CONNECTING TO THE CLOUE

Install the batteries.

Download and sign in to the **EasyLog Cloud App** on your mobile device. Select "Setup Device" and follow the on-screen instructions to add your EL-IOT-SP-TH+.



You can now view the EL-IOT-SP-TH+'s data and change settings either in the EasyLog Cloud App or by visiting your account at: www.easylogcloud.com

STATUS INDICATORS

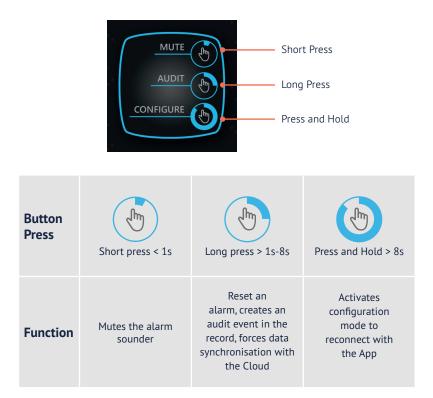
The EL-IOT-SP-TH+ has a sounder and four indicators that clearly indicate its current status:

Indicator	\checkmark		!	
Status	Device in operation	Alarm	Battery Low	Wi-Fi Active

The sounder is active whenever there is an alarm.

BUTTON FUNCTIONS

The main button is used to control the device functions, some of which also create a record in an Event Log, which can be viewed on the Easylog Cloud website.



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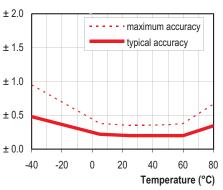


EL-IOT-SP-TH+

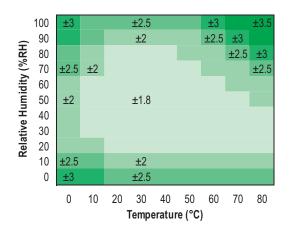
SENSOR ACCURACY & INFORMATION

Typical and maximal tolerance for temperature sensor in °C.

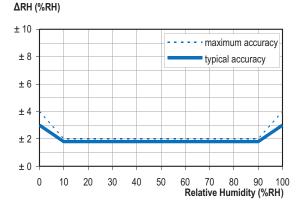
ΔT (°C)



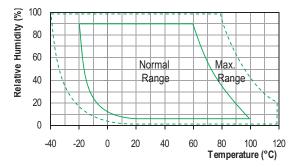
Typical accuracy of relative humidity measurements given in %RH for temperatures 0 to 80° C.



Typical and maximal tolerance at 25°C for relative humidity.



Operating conditions



Long term exposure to humidity levels outside of the 'normal' range may temporarily offset RH measurements (±3%RH after 60 hours). Once returned to less extreme conditions the device will slowly return towards calibration state.

When tracking changes in ambient conditions, the response time of the humidity sensor in your data logger is approximately 20 minutes to reach 90% of the reading. However, if you are measuring step changes in humidity (for example if calibrating the product) it is advised that you leave the unit for up to four hours to ensure that it has enough time to settle at the new level. It is worth remembering that the value of relative humidity is of course sensitive to temperature variation. As an example, at a relative humidity of ~90%RH at ambient temperature, a variation in temperature of 1°C will result in a change of up to -5%RH. Therefore, when comparing multiple devices or calibrating them, any temperature variations must be considered.

The sensor is IEEE 802.11bgn* (2.4GHz) compliant, supports WPA/WPA2/WPA3 encryption and enterprise networks (PEAP, TTLS).

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





EL-IOT-SP-TH+

INCLUDED IN THE BOX BATTERY INFORMATION We recommend that you replace the batteries annually, or prior to logging critical data. Use only AA 1.5V alkaline batteries. The logger does not lose its stored data readings when the batteries are discharged or replaced. However, the logging process will BAT 1V5 AA PK4 **EL-IOT** EL-SP-TH+ stop and will not resume until the batteries are 4 x AA 1.5V WALL BRACKET replaced or a power supply is connected. **Temperature and** alkaline batteries Wall mounting bracket **Humidity Probe** Battery life is dependent on: transmission period, Wi-Fi encryption method, signal strength ACCESSORIES between router/access point and the EL-IOT logger, presence volume and type of Wi-Fi traffic from other devices, sample rate, operating temperature and duration of alarms. CALIBRATION CERTIFICATES BAT 1V5 AA PK4 **PSU EL-IOT EL-IOT** Lascar offers a Traceable Calibration Certificate 4 x AA 1.5V WALL BRACKET **Power supply** Service for temperature and humidity sensors. alkaline batteries Wall mounting bracket Using reference equipment which has been with magnets calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards. For more information please see www.lascarelectronics.com. **TECHNICAL INFORMATION** EL-SP-TH+ **Temperature and Humidity Probe ALSO IN THE RANGE** 9Vdc, 300mA Power Supply Voltage -18 to +55°C, 5% to **Operating Environment** 85% RH, 75kPa to 106kPa (battery power) **Operating Environment** -20 to +60°C, 5% to 85% RH, 75kPa to 106kPa (power supply) -20 to +60°C, 5% to Transportation and EL-IOT-1 **EL-IOT-SP-TH EL-IOT-SP-TC** 85% RH, 75kPa to 106kPa Storage Environment Ambient temperature Wireless temperature and High accuracy temperature humidity data logger and humidity data logger data logger Net Weight 222g Vist lascarelectronics.com/data-loggers to see our full range of data loggers and **Recommended Wall** 3.5 x 20mm, countersunk head, measuring devices Fixing Screws cross recessed, stainless steel

