# Thermocouple Temperature Wi-Fi Cloud-Connected Data Logger

## EL-IOT-SP-TC

EasyLog

Your data, anytime, anywhere

- Measures temperature from -200 to +1,300°C (depending on probe type used)
- 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 thermocouple 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.**

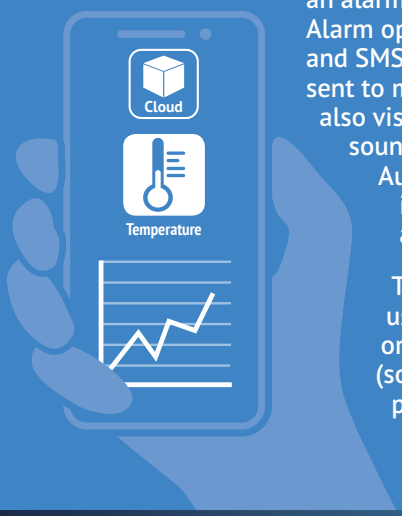



## Compatible Thermocouple Types

| | |
|---|---|
| **K Type** | -200 to +1,300°C (-328 to +2,372°F) |
| **J Type** | -200 to +1,190°C (-328 to +2,174°F) |
| **T Type** | -200 to +390°C (-328 to +734°F) |

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

| | |
|---|---|
| Temperature Range With K-Type Probe Supplied | 0 to +200°C (32 to +392°F) |
| Temperature Resolution | 0.1° |
| Temperature Accuracy With K-Type Probe Supplied | ±1.0°C (±1.8°F) |
| | Supplied with a Class 2 K-Type Probe |
| Logging Period | 10 seconds to 12 hours (user selectable) |
| Transmission Interval | 1 minute to 24 hours (user selectable) |
| Internal Memory | 300,000 readings |
| Cloud Memory | Unlimited |
| Battery Life | 6 months (typical) |
| Battery Type | 4 x AA 1.5V batteries (or via mains adapter) |
| Dimensions | 94 x 83 x 31mm |
| Probe Length | 100mm (4") |
| Probe Cable Length | 1.5m (59") |
| Operating Temperature Range of Logger | -18 to +55°C (0 to +131°F) (batteries)<br>-20 to +60°C (-4 to +140°F) (power supply) |
| Environmental Rating | IP54 (splash proof) |

Issue 1 09/2024

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## EasyLog Cloud Your data, anytime, anywhere.



Easily access your most important data, anywhere



Connect data loggers from multiple sites in one account



Automatic email alerts and SMS



Remotely manage all of your data logger devices





Graph, review and analyse your data



Audits are easy with our event log system



Secure Cloud storage



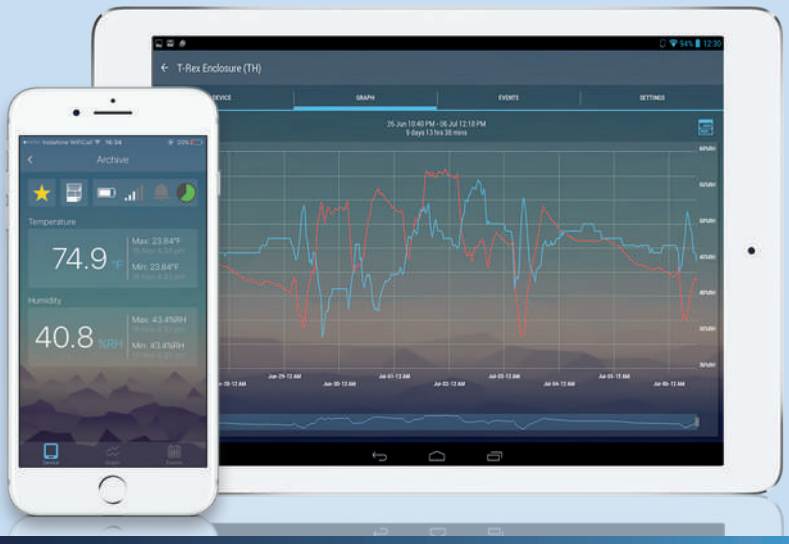
Configurable user profiles

## 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.

GET IT ON Google Play

Download on the App Store




Access your vital data from any internet-enabled 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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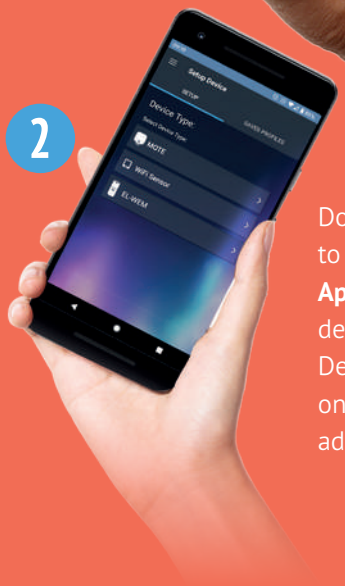
## EL-IOT-SP-TC

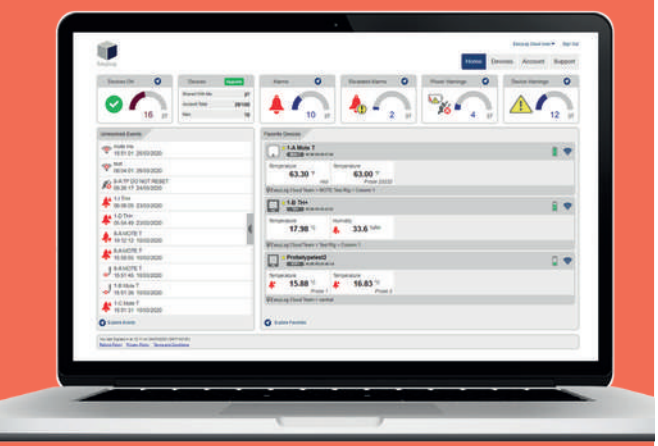
## CONNECTING TO THE CLOUD



1 Install the batteries.



2 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-TC.



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

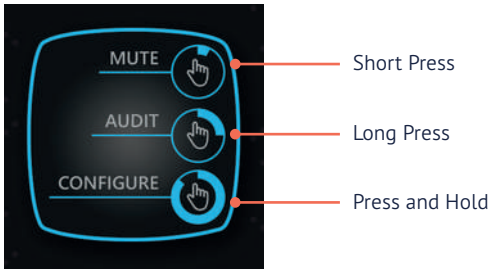
## STATUS INDICATORS

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

| **Indicator** | ✓ | 🔔 | ! | Wi-Fi |
|---|---|---|---|---|
| **Status** | Device in operation | Alarm | Battery Low | Wi-Fi Active |

## 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.




| **Button Press** | Short press < 1s | Long press > 1s-8s | Press and Hold > 8s |
|---|---|---|---|
| **Function** | Mutes the Alarm Sounder | Reset an alarm, creates an audit event in the record, forces data synchronisation with the Cloud | Activates Configuration mode to reconnect with the App |

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EL-IOT-SP-TC

## INCLUDED IN THE BOX



**BAT 1V5 AA PK4**
4 x AA 1.5V
alkaline batteries



**EL-IOT**
**WALL BRACKET**
Wall mounting bracket



**EL-SP-TC**
Thermocouple Probe

## ACCESSORIES



**BAT 1V5 AA PK4**
4 x AA 1.5V
alkaline batteries



**PSU EL-IOT**
Power supply



**EL-IOT**
**WALL BRACKET**
Wall mounting bracket
with magnets



**EL-SP-TC**
Thermocouple Probe

## ALSO IN THE RANGE



**EL-IOT-1**
Ambient temperature
data logger



**EL-IOT-SP-TH**
Wireless temperature and
humidity data logger



**EL-IOT-SP-TH+**
High accuracy temperature
and humidity data logger

**Vist lascarelectronics.com/data-loggers to see our full range of data loggers and measuring devices**

## 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 stop and will not resume until the batteries are replaced or a power supply is connected.

Battery life is dependent on: transmission period, Wi-Fi encryption method, signal strength 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

Lascar offers a Traceable Calibration Certificate Service for temperature and humidity sensors. 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.

## TECHNICAL INFORMATION

| | |
|---|---|
| Power Supply Voltage | 9Vdc, 300mA |
| Operating Environment (battery power) | -18 to +55°C, 5% to 85% RH, 75kPa to 106kPa |
| Operating Environment (power supply) | -20 to +60°C, 5% to 85% RH, 75kPa to 106kPa |
| Transportation and Storage Environment | -20 to +60°C, 5% to 85% RH, 75kPa to 106kPa |
| Net Weight | 222g |
| Recommended Wall Fixing Screws | 3.5 x 20mm, countersunk head, cross recessed, stainless steel |