EL-MOTE-TH - www.pel.eu

Temperature & Humidity Cloud-Connected Data Logger



- Measures ambient temperature between -30 to +80 °C/-22 to +176 °F and relative humidity 0 to 100 %RH
- Records and uploads temperature and humidity data to the EasyLog Cloud
- Access live temperature and humidity data via any Internet Browser or the EasyLog Cloud App
- Set up alarm options for temperature and humidity zone breaches email alerts, beeper alarms or LED flash alerts
- Suitable for indoor and outdoor use
- Battery life of up to 2 years



The EL-MOTE-TH kit has been designed to monitor air temperature and relative humidity in a large range of applications. Its external temperature and humidity probe made it an ideal choice for applications where it may be problematic to locate the whole device such as museum display cases and HVAC systems.

Products in the EL-MOTE range are simple to set-up and easy to use. Download the EasyLog Cloud App and set-up a device in minutes over your WiFi network. After set-up, the device can be placed anywhere within range of the WiFi network, continually monitoring and recording your data to the EasyLog Cloud. Access your data on any Internet Browser or the EasyLog Cloud App, enabling you to monitor the ambient temperature and humidity of your chosen location from anywhere at any time.

EL-MOTE devices can be programmed with high and low temperature and humidity alarm zones. If a temperature or humidity zone is breached, an alarm will be activated. Alarm options include: email alerts (which can be sent to one or multiple email addresses), beeper sound alarms, and LED flash alerts.

EL-MOTE devices can be powered using the supplied batteries or a mains adapter (sold separately), and are provided with a wall mountable bracket for installation.



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EasyLog

Logger Specification	Minimum	Typical	Maximum	Unit
Battery Life		2*		years
Battery Type	4 x 1.5V AA cells			
Operating Temperature (Powered by Batteries Supplied)	-20 (-4)		+54 (129.2)	°C (°F)
Operating Temperature (Mains Adapter Powered)	-20 (-4)		+60 (140)	°C (°F)
Logging Period (User Configurable)	10 sec	10 min	12 hrs	
Transmission Period (User Configurable)	1 min	1 hour	24 hours	
Dimensions	93 x 93 x 32 (3.7 x 3.7 x 1.3) mm (inches		mm (inches)	
IP Rating	67			

Probe Specification	Minimum	Typical	Maximum	Unit
Temperature Range	-30 to +80 (-22 to +176)		°C (°F)	
Temperature Resolution	0.1 (0.1)		°C (°F)	
Temperature Accuracy		±0.3 (+5 to +60) (±0.6 (+41 to +140))	±0.8 (-20 to +60) (±1.6 (-4 to +140))	°C (range) (°F (range))
Humidity Range	0 to 100		%RH	
Humidity Resolution	1		%RH	
Humidity Accuracy (@25°C)		±2** (20 to 80)	±5** (0 to 100)	%RH (%RH)
Probe Dimensions (Without Bracket)	37 x 12 x 8 (1.5 x 0.5 x 0.3)		mm (inches)	
Cable Length	2000 (79)		mm (inches)	

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

CONTAINS FCC ID:



* 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. Logging period and transmission period can be configured in Settings via the EasyLog Cloud App.

**Please refer to the charts in this datasheet for more detailed accuracy specifications.

WHAT'S IN THE BOX?

PART NUMBER	DESCRIPTION	
EL-MOTE WALL BRACKET Wall Mounting Bracket for EL-MOTE Devi		
BATTERIES	1.5V AA x 4	
EL-MOTE-PROBE-2M-TH	Temperature and Humidity Probe on 2m Cable	

WHAT EXTRA ACCESSORIES ARE AVAILABLE?

PART NUMBER	DESCRIPTION	
EL-MOTE-PSU	Mains Power Adapter	
EL-MOTE-PROBE-2M-TH	H Temperature and Humidity Probe on 2m Cable	
EL-MOTE WALL BRACKET Wall Mounting Bracket for EL-MOTE Device		

Specifications liable to change without prior warning





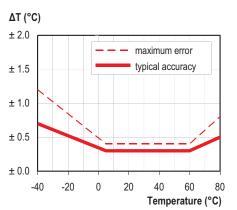
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Temperature & Humidity Cloud-Connected Data Logger

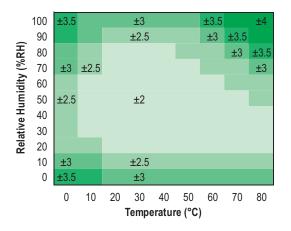


SENSOR ACCURACY & INFORMATION

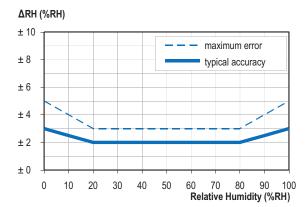
Typical and maximal tolerance for temperature sensor in °C.



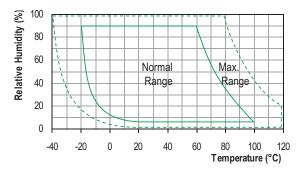
Typical accuracy of relative humidity measurements given in %RH for temperatures 0 to 80° C.



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.







Quick Start Guide

Welcome! Let's set up your EL-MOTE

Before you connect your EL-MOTE, you need to do a few things.

- You'll need to set up an account on www.easylogcloud.com so that you can view your devices remotely.
- Download the EasyLog Cloud App on your phone or tablet
- Have your WiFi network details to hand

Not an Apple or Android user? Visit the support section on www.easylogcloud.com for alternative set up methods.









Remove mounting bracket

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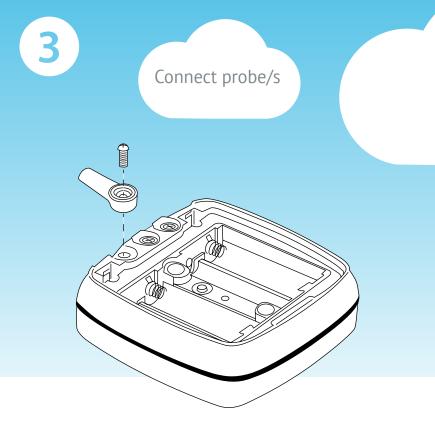
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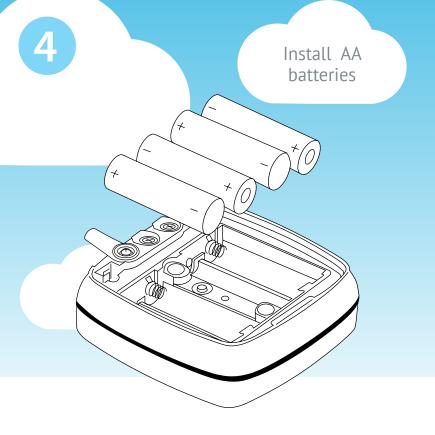
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Remove battery cover

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(do not refit this until set up is complete)





In the EasyLog Cloud App, go to the menu, select Set up Device and follow the on-screen instructions

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Once EL-MOTE is connected to your WiFi network replace the battery cover and install EL-MOTE in its place of application

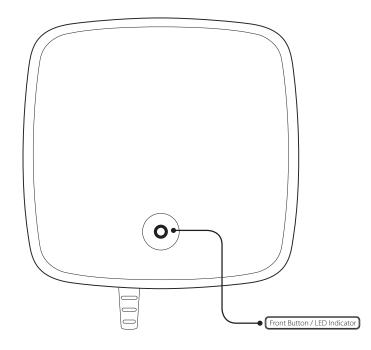
View and change device settings using the App or at www.easylogcloud.com

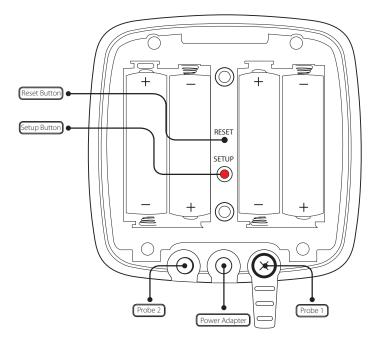
ready to go!

Device Indication Overview

State		Front Button LED	Sounder
\checkmark	Device OK	1 Flash / 5 Sec	No Sounder
×	Fault	1 Flash / 5 Sec	Single tone ring every 30 minutes
<u></u>	Alarm	1 Flash / 5 Sec	Continuous two tone ring

Visit www.easylogcloud.com for a detailed visual / sound state indication guide.





Important Safety Information

WARNING: Failure to follow these safety instructions could result in fire, electrical shock, other injury or damage.

Repairing or modifying

Never attempt to repair or modify this product. Dismantling may cause damage that is not covered under the warranty. Servicing should only be provided by an approved supplier. If the product has been punctured or seriously damaged, do not use it and return it to an approved supplier.

Using connectors and ports

Never force a connector into a port. Check for obstruction in the port; make sure that the connector matches the port and that you have positioned the connector correctly in relation to the port. If the connector and port do not join with reasonable ease, they probably do not match and should not be used.

Power supply

Only use 1.5V AA batteries or a genuine EL-MOTE power adapter to power your EL-MOTE data logger.

Disposal and recycling

You must dispose of this product and batteries according to relevant laws and regulations. This product contains electronic components and therefore must be disposed of separately from household waste.

Caution:

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

08/12/2017