EL-MOTE-TH+

High Accuracy 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 LogEasy Cloud
- Access live temperature and humidity data via any Internet Browser or the LogEasy 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

2163 HC Lisse

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 LogEasy 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 LogEasy Cloud. Access your data on any Internet Browser or the LogEasy Cloud App, and the continuation of the up and the context of the 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.





EL-MOTE-TH+

High Accuracy Temperature & Humidity Cloud-Connected Data Logger



Logger Specification	Minimum	Typical	Maximum	Unit	
Battery Life		2*		years	
Battery Type	4 x 1.5V AA cells				
Operating Temperature (Powered by Batteries Supplied)	-18 (-0.4)		+55 (+131)	°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)				
IP Rating	67				

Probe Specification	Minimum	Typical	Maximum	Unit	
Temperature Range	-30 to +80 (-22 to +176) 0.01 (0.01)			°C (°F)	
Temperature Resolution				°C (°F)	
Temperature Accuracy		±0.2 (+5 to +60) (±0.4 (+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	0.1		%RH		
Humidity Accuracy (@25°C)	±1.8** (20 to 80)		±4** (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 II



* 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 LogEasy Cloud App.

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

WHAT'S IN THE BOX?

PART NUMBER	DESCRIPTION	PART
EL-MOTE WALL BRACKET	Wall Mounting Bracket for EL-MOTE Device	EL-MO
BATTERIES	1.5V AA x 4	EL-SP-T
EL-SP-TH+	High Accuracy Temperature and Humidity Probe on 2m Cable	EL-MO

WHAT EXTRA ACCESSORIES ARE AVAILABLE?

PART NUMBER	DESCRIPTION
EL-MOTE-PSU	Mains Power Adapter
EL-SP-TH+	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



CALIBRATION CERTIFICATES AVAILABLE

Re5al offers Calibration Reports and ISO 17025 certificates on request. We are accreditated by the RvA. For more information please look at our website www.re5al.nl/kalibratie





+31 (0)88 4224460

Or send an email to:

KALIBRATIE **Rva** k 172

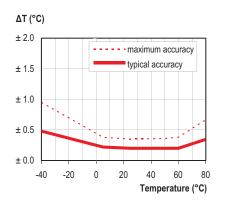
INFO@RE5AL.NL

EL-MOTE-TH+

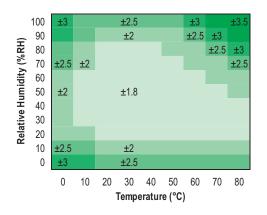
High Accuracy Temperature & Humidity Cloud-Connected Data Logger

SENSOR ACCURACY & INFORMATION

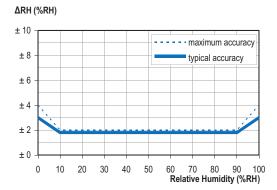
Typical and maximal tolerance for temperature sensor in °C.



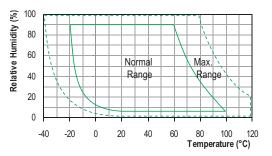
Typical accuracy of relative humidity measurements given in %RH for temperatures 0 to 80° C.



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.



Questions? Call us!

Or send an email to: INFO@RE5AL.NL



+31 (0)88 4224460