

# WIRELESS HUMIDITY SENSOR WITH INTERNAL ANTENNA AND PROBE SENSOR



## INFORMATION

Format	Coin Cell
Frequency	868 MHz

Xemote ultra low-power wireless humidity sensors use a digital humidity sensor that provides excellent measurement accuracy at very low power. This sensor is perfect for monitoring the relative humidity of the air within laboratories, art museums, wine cellars and industrial spaces. User customisation allows you to set the frequency of readings and the ability to set thresholds for alerts via SMS text and/or email.

## HIGHLIGHTS

- Up to 128 sensors connected to a single gateway
- Ultra-low power
- ISM band wireless
- Critical Data Recovery (CDR) feature, 21 days at 10 min posting intervals
- Non-intrusive installation

## APPLICATIONS

- Laboratory temperature and humidity monitoring
- Art gallery and museum environment monitoring
- Wine cellar humidity monitoring
- Server room humidity monitoring
- Greenhouse humidity monitoring
- Agriculture environmental monitoring

## SENSOR SPECIFICATIONS

### Relative Humidity

Relative Humidity Operating Range	0 – 100% RH
Accuracy	±2% RH
Repeatability	±0.1% RH
Hysteresis	±1% RH (10% ≤ RH ≤ 70%)
RH Response Time	15s (63% of the total RH change after a step change)

### Coin Cell

Battery Type	CR2450
Classification	Lithium Coin
Typical Capacity	620mAh
Dimensions	24.5mm x 5.0mm
Max Operating Temperature	-20 °C to +60 °C
Optimal Battery Operating Temperature	+10 °C to +50 °C
Supply Voltage	2.0 - 3.6 V
Battery Life	At 10-minute heartbeat setting, coin cell battery will typically last ~ 4 years (battery life is determined by sensor reporting frequency and other variables)

### Wireless

Frequency	868 MHz Operating Frequency
Range	Up to 150 m non-line-of-sight device range (actual range may vary)

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	depending on environment). Longer ranges available with GSM Gateway 868Mhz outdoor Omni antenna 6dB gain. (Typically, 300 m plus)
Security	Encrypted
Certifications	ETSI EN 300 220-2 V2.4.1 (2012-05)
Antenna	Internal
<b>I/O</b>	
Bidirectional IO Ports	2x Internal Input/output
Logic Level	3.3V
Drive Current	20mA Max
<b>Mechanical</b>	
Dimensions	50mm x 50mm x 20mm 65mm x 50mm x 20mm – Including flanges
Weight	0.035 kg
Material	ABS Plastic
Mounting Options	Wall mount flanges, button magnet, Velcro strips, double sided tape
<b>Environmental</b>	
Operating Temperature	-20 °C to +60 °C
Storage Temperature	-20 °C to +45 °C (Incl. Battery)
<b>Warranty Terms</b>	
Period	12 months

## ORDERING INFORMATION

Part Number	Details	Configuration
XEMT4-20050	Wireless coin cell Humidity sensor	Supplied with 1x CR2450 coin cell battery and 1m length probe cable. Longer lengths are available on request.

*Product images are for illustrative purposes only and may differ from the actual product.*

*Specifications are subject to change without notice.*

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