

WIRELESS TEMPERATURE & HUMIDITY SENSOR WITH EXTERNAL ANTENNA



INFORMATION

Format	Coin Cell
Frequency	868 MHz
Temperature Profile	Temperature (-20 °C to +60 °C)

Xemote ultra low-power wireless temperature sensors use a digital humidity sensor with an integrated temperature sensor that provides excellent measurement accuracy at very low power. This sensor is perfect for monitoring ambient temperatures around the sensor's physical location. 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

- Warehouse temperature monitoring
- HVAC system monitoring to detect failures or heating / cooling issues
- Freezer and cooler temperature monitoring to detect failure and prevent food spoilage
- Server room temperature monitoring
- Greenhouse temperature monitoring
- Smart Thermostats and Room Monitors

SENSOR SPECIFICATIONS

Temperature

Sensing Element	Digital
Functional Operating Temperature	-20 °C to +60 °C
Accuracy @ 25 °C	±0.2 °C (typical)

Relative Humidity

Functional Operating Temperature	-20 °C to +85 °C
Accuracy	±2% Relative Humidity (typical)
RH Response Time	15s

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
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Range	Up to 200 m non-line-of-sight device range (actual range may vary 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	Right angle or Straight angle on request
I/O	
Bidirectional IO Ports	2x Internal Input/output
Logic Level	3.3V
Drive Current	20mA Max
Mechanical	
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
Environmental	
Operating Temperature	-20 °C to +60 °C
Storage Temperature	-20 °C to +45 °C (Incl. Battery)
Warranty Terms	
Period	12 months

ORDERING INFORMATION

Part Number	Details	Configuration
XEMT4-20031	Wireless coin cell Temperature and Humidity sensor	Supplied with 1x CR2450 coin cell battery and right-angle antenna Straight angle antenna on request

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