

WIRELESS WATER DETECTION SENSOR WITH EXTERNAL ANTENNA AND WATER ROPE SENSOR



INFORMATION

Format	Coin Cell
Frequency	868 MHz

Xemote ultra low-power wireless water rope sensors detect conductive liquids anywhere along the length of the detection rope by using two wires covered with conducting polymer. When water or conductive liquid contacts the rope, the sensor will immediately transmit the data to the wireless gateway and Xemote cloud portal, allowing the user to immediately receive an alert by SMS text or email. The sensor rope dries quickly allowing the sensor to reset for next use.

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

- For detecting water presence and warning of flooding
- Detects any conductive liquid or moisture
- Server room monitoring
- Basement leak monitoring
- And many more...

SENSOR SPECIFICATIONS

Water Detect Rope Sensor

Material	PE + alloy lead
Weight	30g/meter
Pull Force Limit	60kg
Fire Resistance	Second pressure plenum cable
Cable Diameter	5.5mm
Core Resistance	3ohm/100 meters
Maximum Exposed Temperature	75°C (167°F)
Cable Length	3m (expandable to 30m)

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 ~ 3 years (battery life is determined by sensor reporting frequency and other variables)

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Wireless

Frequency	868 MHz Operating Frequency
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
IP Rating	IP54 (protection against the access of dust and splashing water)

Environmental

Operating Temperature	-20 °C to +60 °C
Storage Temperature	-20 °C to +45 °C (Incl. Battery)

Warranty Terms

Period	12 months
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ORDERING INFORMATION

Part Number	Details	Configuration
XEMT4-20101	Wireless coin cell Water Rope sensor	Supplied with 1x CR2450 coin cell battery and 1m section of water detection rope expandable up to 30m. Straight-angle antenna 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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