

WIRELESS WATER DETECTION SENSOR WITH INTERNAL 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) |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|

Wireless

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| | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency | 868 MHz Operating Frequency |
| Range | Up to 150 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 | Internal |
| 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 |

ORDERING INFORMATION

| Part Number | Details | Configuration |
|-------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|
| XEMT4-20100 | Wireless coin cell Water Rope sensor | Supplied with 1x CR2450 coin cell battery and 1m section of water detection rope expandable up to 30m. |

*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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