

# WIRELESS WATER LEVEL DETECTION SENSOR WITH EXTERNAL ANTENNA AND EXTERNAL WATER LEVEL SENSOR



## INFORMATION

Format	Coin Cell
Frequency	868 MHz

Xemote ultra low-power wireless water detection sensors detect rising water levels in tanks or other liquid vessels. A compact vertically mounted float switch which is mounted at either the top/bottom or both of a tank (by the supplied 'O' ring and nut) to either rise or fall for activation (internal magnet) of a sealed reed relay. A float switch is a used to sense the level of liquid within a tank, used to an alarm or other device.

## 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

- Detect rising water levels
- Detect falling water levels
- Basement leak monitoring
- Used with hydroponics, saltwater tanks, freshwater tanks, gardening, aquariums, filtration
- And many more...

## SENSOR SPECIFICATIONS

### 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 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.
Security	Encrypted
Certifications	ETSI EN 300 220-2 V2.4.1 (2012-05)
Antenna	Right angle or Straight on request

### I/O

For more information about our products, please contact our sales department.

Visit our website at [www.xemote.co.za](http://www.xemote.co.za) | [sales@xemote.co.za](mailto:sales@xemote.co.za)

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Bidirectional IO Ports	Interfaces with water level detection sensor
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
IP Rating	IP54 (protection against the access of dust and splashing water)
<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
XEMT4-20141	Wireless coin cell water level detection sensor.	Supplied with 1x CR2450 coin cell battery and 0,5m length water level sensor cable and right-angle antenna. Longer/shorter cable lengths are available on request. Note: Up to two water level sensors can be used per wireless unit. 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.*