

REVEAL™

MULTITECH®

LoRaWAN® Wireless Leak Detection Sensors



LoRa®

MultiTech Reveal™ Wireless Leak Detection Sensors use a sensor probe or rope to detect the presence of water. When water is detected, an alert is sent remotely over the wireless network to prevent a potentially catastrophic event.

The wireless leak detection sensors use LoRaWAN® technology to prevent damage to expensive equipment. Place the remote leak detector near water heaters, standing tanks, windows/doors, toilets, septic systems, condenser and refrigeration systems, floor drains, or water control valves to prevent costly liquid damage.

Reveal LoRaWAN wireless sensors make it easy to connect sensor data to your applications. Best in class RF performance enables Reveal sensors to work in environments where others fail. Advanced power management provides maximum battery life. Reveal sensors can be configured over the air, enabling them to be optimized, before and after installation, for the most optimum reporting intervals or thresholds to provide the data that is important to your application, when you need it.

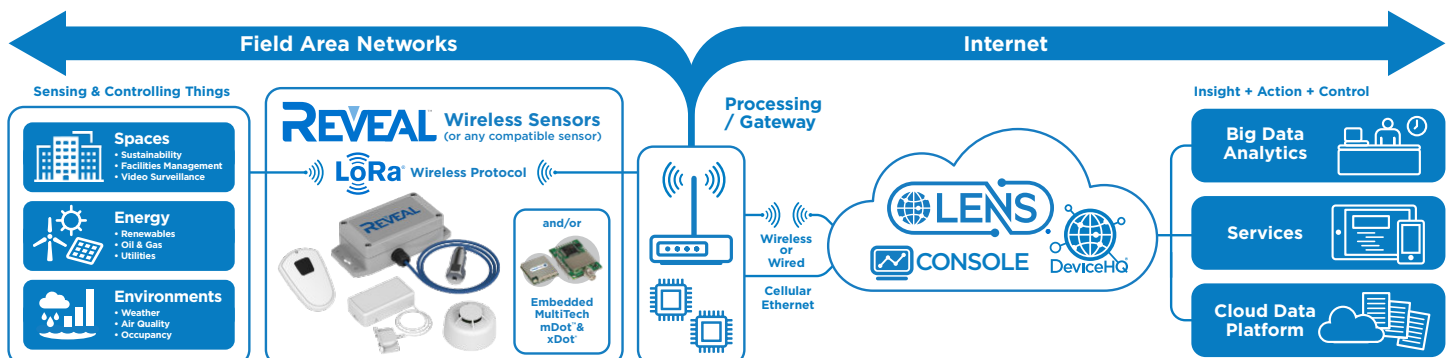
BENEFITS

- Open architecture for flexible integration
- Optional web-based console for provisioning, monitoring, and configuration of sensors in the field
- Seamlessly integrate with MultiTech portfolio of LoRaWAN gateways

FEATURES

- Based on LoRaWAN wireless technology
- Very long range, up to several miles
- Excellent wireless penetration through structures such as walls and floors
- Enclosure tamper detection available
- Automatic error reporting through supervisory messages
- Over the air configuration

www.multitech.com/sensors





LoRaWAN® Wireless IoT Sensors

Long-range wireless sensors for the Internet of Things (IoT)

MultiTech Reveal™ wireless sensors, originally designed and manufactured by Radio Bridge, utilize the LoRaWAN® wireless standard and are all engineered for long-range, low cost, and extended battery life applications. The Reveal family of sensors deliver critical asset information so you understand what's going on and can react quickly when needed.

Reveal Sensor / Item

Description

Applications

RBS301-WAT-US



LoRaWAN Water Detect Sensor for Indoor Use

This sensor uses a probe to detect the presence of water. When the presence of water is detected, an alert is sent to the wireless network.

RBS301-WR1M-US



LoRaWAN Water Detect with 1 Meter Rope Sensor for Indoor Use

This sensor uses a water rope to detect the presence of water. When the presence of water is detected, an alert is sent to the wireless network. Designed for indoor use.

RBS306-WR1M-US



LoRaWAN Water Detect with 1 Meter Rope Sensor for Outdoor/Industrial Use

This sensor uses a water rope to detect the presence of water. When the presence of water is detected, an alert is sent to the wireless network. Designed for industrial/outdoor use.

- Leak Detection
- Sink and Toilet Leak Detection
- Plumbing Leaks
- Reservoir Leak Detection
- Burst Pipe Monitoring
- Data Center Leak Monitoring
- Water Intrusion Monitoring

Radio Bridge Console

The Radio Bridge Console is an optional web-based fully integrated solution that provides sensor configuration, LoRaWAN Network Server management, configurable alerts and notifications and sensor visualization that enables you to deploy and validate your sensor-to-cloud solution immediately, without spending weeks or months on system integration efforts.

LEARN MORE: radiobridge.com/software/device-management-console



SENSOR SPECIFICATIONS OVERVIEW

Item / Type	Description		
Sensor Type	LoRaWAN Water Detect (Indoor Use)	LoRaWAN Water Detect with 1 Meter Water Rope (Indoor Use)	LoRaWAN Water Detect with 1 Meter Water Rope (Outdoor/Industrial Use)
Part Number	RBS301-WAT-US	RBS301-WRIM-US	RBS306-WRIM-US
LoRa® Wireless			
Frequency Band (Mhz)	902-928		
Channel Plan	US915		
Protocol	LoRaWAN compliant		
Antenna	Internal		
Power			
Battery Powered	Yes		
Battery Type	1 X CR123A	2 X CR123A	
User Replaceable	Yes		
Battery Life	200,000+ transmissions, up to 10 years depending on configuration (https://radiobridge.com/documents/Sensor%20Battery%20Estimator.xlsx)		
Physical Description			
Physical Dimensions (LxWxH)	2.81" x 1.46" x 0.75" (71.37mm x 37.08mm x 19.05mm)	5.12" x 2.56" x 1.58" (130.05mm x 65.02mm x 40.13mm)	
Physical Weight	111g (base weight without probe: 40g)	227g (base weight without probe: 175g)	
Enclosure Type	ABS Plastic, indoor rated	ABS Plastic, outdoor rated	
Mounting	Screw or Adhesive	Screw	
Environmental			
Operating Temperature	-30 to +70°C	-40 to +70°C	
Operating Humidity	10 - 90% (non-condensing)		
Storage Temperature	-40° to +70°C*		
Certifications			
Compliance	FCC/IC		
Warranty	2-Years / www.multitech.com/legal/warranty		

*The device may be stored at higher temperatures, but degradation of the battery life will occur. See user guide for more information.

ORDERING INFORMATION

MultiTech Reveal Sensor

Model	Description	Region
RBS301-WAT-US	LoRaWAN Water Detect Sensor for Indoor Use (1 Pk)	North America
RBS301-WRIM-US	LoRaWAN Water Detect with 1 Meter Rope Sensor for Indoor Use (1 Pk)	North America
RBS306-WRIM-US	LoRaWAN Water Detect with 1 Meter Rope Sensor for Outdoor/Industrial Use (1 Pk)	North America

Services & Warranty

MultiTech's comprehensive Support Services programs offer a full array of options to suit your specific needs. These services are aimed at protecting your investment, extending the life of your solution or product, and reducing total cost of ownership. Our seasoned technical experts, with an average tenure of more than 10 years, can walk you through smooth installations, troubleshoot issues and help you with configurations.

Technical Support Services

At MultiTech, we're committed to providing you personalized attention and quality service while providing you a quick response to your product support needs. We have several options of support for you to choose from.

For additional information on Support Services as well as other service offerings, please contact your MultiTech representative or visit www.multitech.com/support.go

World Headquarters

Multi-Tech Systems, Inc.
2205 Woodale Drive
Mounds View, MN 55112 U.S.A.
Tel: 763-785-3500
Email: sales@multitech.com
www.multitech.com

MULTITECH 

Features and specifications are subject to change without notice.

Trademarks and Registered Trademarks: MultiTech and the MultiTech logo, Reveal: Multi-Tech Systems, Inc. All other products and technologies are the trademarks or registered trademarks of their respective holders.

2022-12 • 86002266 • © 2022 Multi-Tech Systems, Inc. All rights reserved.