



## LoRaWAN® Wireless Door/ Window Sensors

Radio Bridge LoRaWAN® Wireless Door/Window Sensors detect contact between two wires, proximity detection with a magnet, range with an ultrasonic signal, and more. Applications for these wireless proximity door/window sensors include open/close events, secure storage for cabinets and lock boxes, and general proximity to detect a magnet near the sensor.

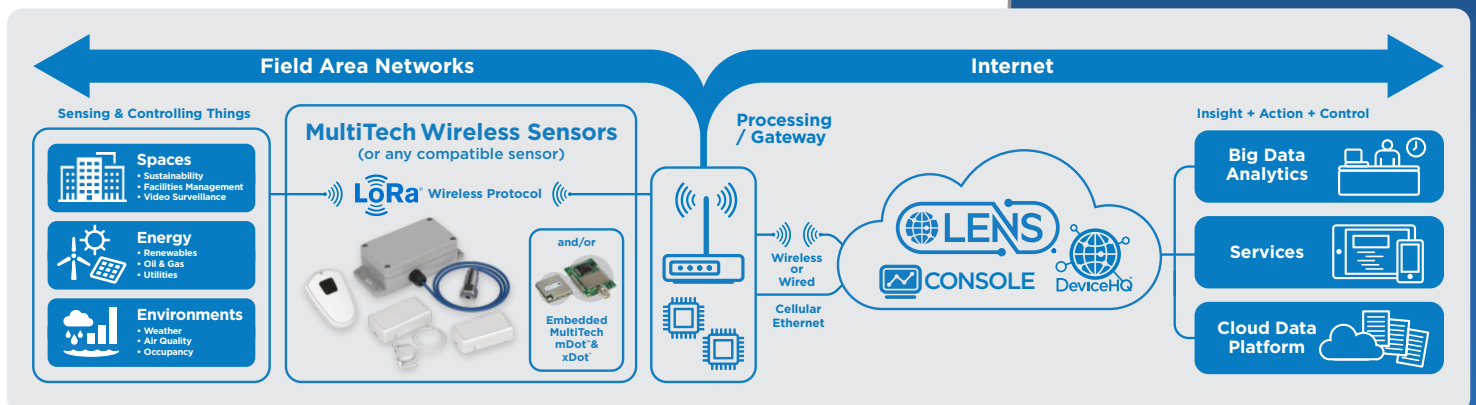
LoRaWAN wireless sensors make it easy to connect sensor data to your applications. Best in class RF performance enables sensors to work in environments where others fail. Advanced power management provides maximum battery life. Sensors can be configured over the air, enabling them to be optimized, before 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
- Automatic error reporting through supervisory messages
- Over the air configuration



# LoRaWAN® Wireless IoT Sensors

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

Radio Bridge LoRaWAN® wireless sensors, utilize the LoRaWAN wireless standard and are all engineered for long-range, low cost, and extended battery life applications. These sensors deliver critical asset information so you understand what's going on and can react quickly when needed.

### Sensor / Item

### Description

### Applications

RBS301-DWS-US &  
RBS3010EU01BN00



### LoRaWAN Door/Window Sensor for Indoor Use

The door/window sensor uses a magnet to detect open/close events for doors, windows, or other applications that use a magnet to detect close proximity.

- Building / Commercial Property
- Retail, Restaurants
- Fridges / Freezer
- Garage Doors

### 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](https://radiobridge.com/software/device-management-console)



## SENSOR SPECIFICATIONS OVERVIEW

Item / Type	Description	
Sensor Type	LoRaWAN Door/Window (Indoor Use)	LoRaWAN Door/Window (Indoor Use)
Part Number	RBS301-DWS-US	RBS3010EU01BN00
<b>LoRa® Wireless</b>		
Frequency Band (MHz)	902-928	863-870
Channel Plan	US915	EU868
Protocol	LoRaWAN compliant	
Antenna	Internal	
<b>Power</b>		
Battery Powered	Yes	
Battery Type	1 X CR123A	
User Replaceable	Yes	
Battery Life	200,000+ transmissions, up to 10 years depending on configuration ( <a href="https://radiobridge.com/documents/Sensor%20Battery%20Estimator.xlsx">https://radiobridge.com/documents/Sensor%20Battery%20Estimator.xlsx</a> )	
<b>Physical Description</b>		
Physical Dimensions (LxWxH)	2.81" x 1.46" x 0.75" (71.37mm x 37.08mm x 19.05mm) Magnet: 1.25" x 0.7" x 0.5" (31.75 x 1.77mm x 12.7mm)	
Physical Weight	111g base weight	
Enclosure Type	ABS Plastic, indoor rated	
Mounting	Screw or Adhesive	
<b>Environmental</b>		
Operating Temperature	-30 to +60°C	
Operating Humidity	10 - 90% (non-condensing)	
Storage Temperature	-40° to +45°C*	
<b>Certifications</b>		
Compliance	FCC/IC	CE, RED, UKCA
Warranty	2-Years / <a href="http://www.multitech.com/legal/warranty">www.multitech.com/legal/warranty</a>	

\*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 Sensors

Model	Description	Region
RBS301-DWS-US	LoRaWAN Door/Window Sensor for Indoor Use (1 Pk)	North America
RBS3010EU01BN00	LoRaWAN Door/Window Sensor for Indoor Use (1 Pk)	EU & UK

## 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](http://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](mailto:sales@multitech.com)  
[www.multitech.com](http://www.multitech.com)

Features and specifications are subject to change without notice.

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

2023-09 • 86002276 • © 2023 Multi-Tech Systems, Inc. All rights reserved.

