



LoRaWAN® Wireless Dry Contact Sensors

Radio Bridge LoRaWAN® Wireless Dry Contact Sensors are two-wire dry sensors that detect a connection between two wires. The ABS plastic enclosure makes the sensor suitable for outdoor and industrial use, and is also available for indoor, smart building applications. Other applications include button or switch integration, actuation counting, machine monitoring, security systems and HVAC monitoring. The contact sensor can also be used as a bridge device to enable a wide variety of sensors that have dry contact outputs.

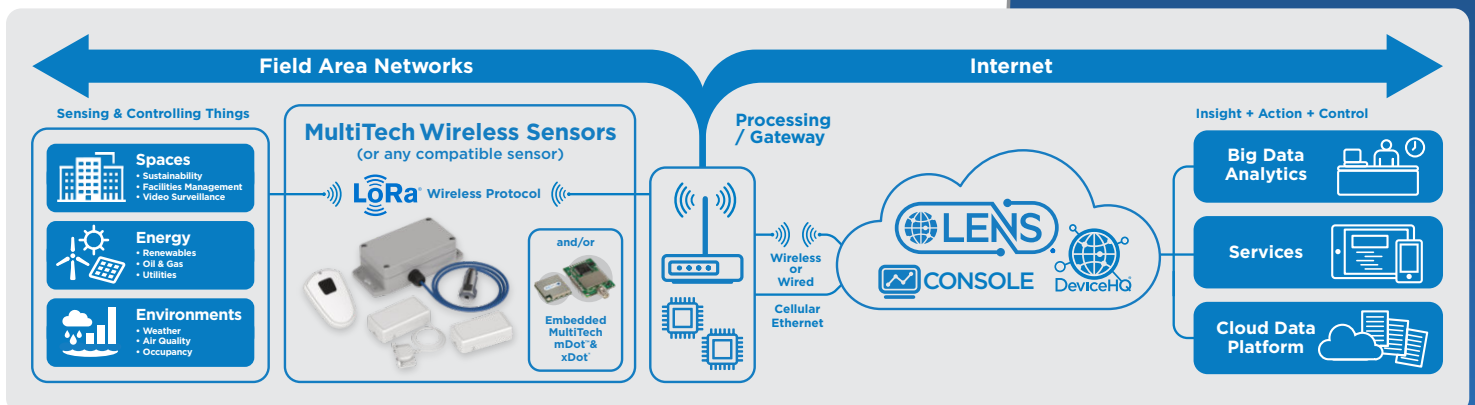
LoRaWAN wireless sensors make it easy to connect sensor data to your applications. Best in class RF performance enables sensors to work in environments where others fail. Advanced power management provides maximum battery life. Sensors can be configured over the air, enabling them to be optimized, before 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-CON-US & RBS3010EU03BN00



LoRaWAN Dry Contact Sensor for Indoor Use

The LoRaWAN Dry Contact Sensor is a two-wire dry contact sensor that detects a connection between two wired points. It detects when the wires are open or shorted and sends an alert over the wireless network.

- Relays
- Button or Switch Integration
- Actuation Counting
- Machine Monitoring
- Building Automation
- Security Systems
- HVAC Monitoring

RBS306-CON-US



LoRaWAN Dry Contact Sensor for Outdoor/Industrial Use

The LoRaWAN Dry Contact Sensor is a two-wire (plus ground) dry contact sensor that detects a connection between two wired points. It detects when the wires are open or shorted and sends an alert over the wireless network. The ABS Plastic enclosure makes the sensor suitable for outdoor and industrial use.

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 Dry Contact (Indoor Use)	LoRaWAN Dry Contact (Outdoor/Industrial Use)	LoRaWAN Dry Contact (Indoor Use)
Part Number	RBS301-CON-US	RBS306-CON-US	RBS3010EU03BN00
LoRa® Wireless			
Frequency Band (MHz)	902-928		863-870
Channel Plan	US915		EU868
Protocol	LoRaWAN compliant		
Antenna	Internal		
Power			
Battery Powered	Yes		
Battery Type	1 X CR123A	2 X CR123A	1 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)	2.81" x 1.46" x 0.75" (71.37mm x 37.08mm x 19.05mm)
Physical Weight	111g (base weight without probe: 40g)	227g (base weight without probe: 175g)	111g (base weight without probe: 40g)
Enclosure Type	ABS Plastic, indoor rated	ABS Plastic, outdoor rated	ABS Plastic, indoor rated
Mounting	Screw or Adhesive	Screw	Screw or Adhesive
Environmental			
Operating Temperature	-30 to +60°C	-40 to +70°C	-30 to +60°C
Operating Humidity	10 - 90% (non-condensing)		
Storage Temperature	-40° to +45°C*		-40° to +45°C*
Certifications			
Compliance	FCC/IC		CE, RED, UKCA
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 Sensors

Model	Description	Region
RBS301-CON-US	LoRaWAN Dry Contact Sensor for Indoor Use (1 Pk)	North America
RBS3010EU03BN00	LoRaWAN Dry Contact Sensor for Indoor Use (1 Pk)	EU & UK
RBS306-CON-US	LoRaWAN Dry Contact 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

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 • 86002255 • © 2023 Multi-Tech Systems, Inc. All rights reserved.

