



LoRaWAN[®] Wireless Dry Contact Sensors

Radio Bridge LoRaWAN[®] Wireless Dry Contact Sensors are two-wire dry sensors that detect a connection between two wires. Applications include button or switch integration, smart building, machine monitoring, security systems and HVAC monitoring. The LoRaWAN sensors are available for indoor and outdoor/industrial use.

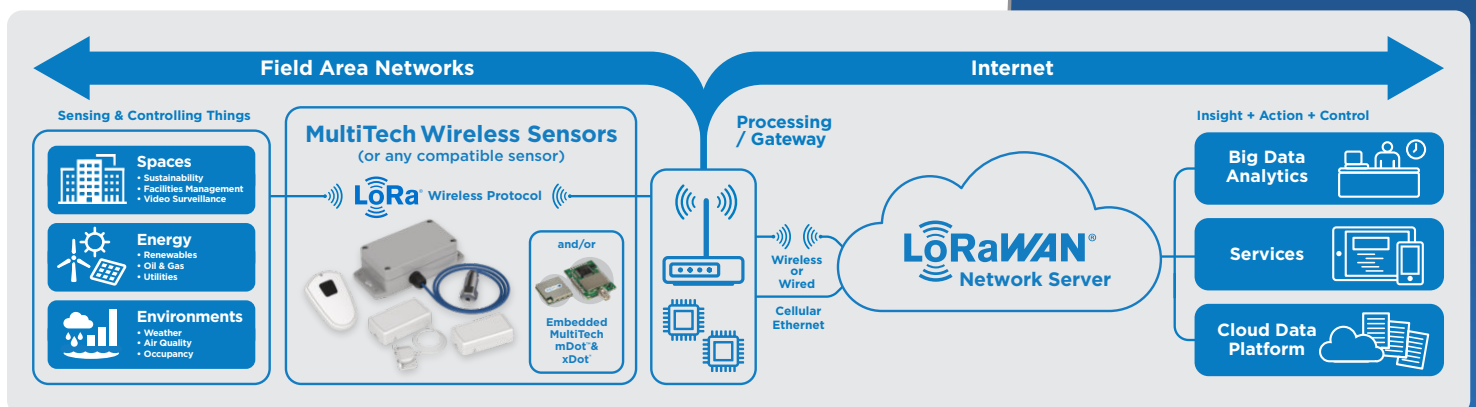
LoRaWAN wireless sensors make it easy to connect sensor data to your applications. Best in class RF performance enables sensors to work in environments where others fail. Advanced power management provides maximum battery life. Sensors can be configured over the air, enabling them to be optimized, before 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 with any LoRaWAN network
- Also available is an optional web-based service for provisioning, monitoring, and configuration of sensors in the field
- Seamlessly integrate with any LoRaWAN gateway in addition to the MultiTech portfolio of LoRaWAN gateways

FEATURES

- Based on LoRaWAN wireless technology
- Optimized Radio performance by balancing performance with long battery life and excellent network performance
- Very long range, up to several miles
- Excellent wireless penetration through structures such as walls and floors
- Automatic error reporting through supervisory messages
- Over the air configuration
- Seamless integration into any cloud service. BACnet integration through MultiTech Gateways.



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 happening and can react quickly when needed.

Sensor / Item

Description

Applications



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
- Machine Monitoring
- Building Automation
- Security Systems
- HVAC Monitoring



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. Sensor visualization 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		
LoRa® Region	US/Canada		EU/United Kingdom
Sensor Type	LoRaWAN Dry Contact (Indoor Use)	LoRaWAN Dry Contact (Outdoor/Industrial Use)	LoRaWAN Dry Contact (Indoor Use)
Part Number	RBS3010NA03BN00	RBS306-CON-US	RBS3010EU03BN00
LoRa® Wireless			
Frequency Band (MHz)	902-928		863-870
Channel Plan	US915		EU868
Protocol	LoRaWAN compliant		
Antenna Peak (typical) Antenna Gain	0.8dBi	1.3dBi	0dBi
Power			
Battery Powered	Yes		
Battery Type / Qty	CR123A x 1	CR123A x 2	CR123A x 1
User Replaceable	Yes		
Battery Life	Optimized solution: up to 10 years battery life. (https://radiobridge.com/documents/Sensor%20Battery%20Estimator.xlsx)		
Physical Description			
Sensor Type	External Dry Contact		
Physical Dimensions (LxWxH)	2.81" x 1.46" x 0.75" (71.37mm x 37.08mm x 19.05mm)	5.709" x 2.592" x 1.575" (145mm x 65.8mm x 40mm)	2.81" x 1.46" x 0.75" (71.37mm x 37.08mm x 19.05mm)
Physical Weight	48g	196g (base weight without probe: 188g)	48g
Enclosure Type	ABS Plastic, IP30, indoor rated	ABS Plastic, IP54, outdoor rated	ABS Plastic, IP30, indoor rated
Mounting	Double Sided Tape or Screw	Screw (includes Tamper)	Double Sided Tape or Screw
Range	Open Or Closed		
Resolution	N/A	N/A	N/A
Accuracy	N/A	N/A	N/A
Environmental			
Operating Temperature	-40 to +50°C	-40 to +70°C	-40 to +50°C
Operating Humidity	10 - 90% (non-condensing)		
Storage Temperature	-40° to +45°C		
Certifications			
Compliance	FCC/IC, REACH, ROHS		CE, RED, UKCA, REACH, ROHS
Warranty	2-Years / www.multitech.com/legal/warranty		

See user guide for more information.

ORDERING INFORMATION

MultiTech Sensors

Model	Description	Region
RBS3010NA03BN00	LoRaWAN Dry Contact Sensor for Indoor Use (1 Pk)	US/Canada
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)	US/Canada

Features and specifications are subject to change without notice.

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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

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