



LoRaWAN® Wireless Multi-Sensors

MultiTech LoRaWAN® Wireless Multi-Sensors are designed to accurately measure temperature, humidity and detect the presence of water.

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, improved LoRaWAN network performance and capacity. Sensors can be configured over the air, before and after installation.

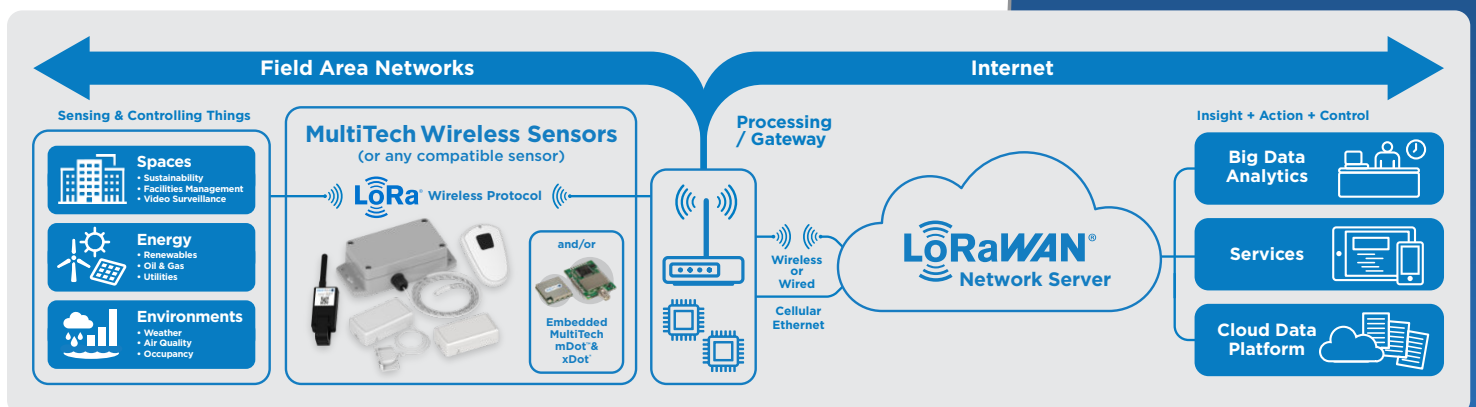
This enables them to be optimized, for the most optimum reporting intervals or thresholds to provide the data that is important to your application, when you need it.

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)

MultiTech 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 Multi-Sensor Temperature and Humidity with Water Probe for Indoor Use This wireless sensor utilizes an internal temperature and humidity sensor to measure temperature and humidity levels. An external probe detects the presence of water.	• Building / Commercial Property Leak Detection • Retail, Restaurants Leak Detection • Sink and Toilet Leak Detection • Plumbing Leaks • Reservoir Leak Detection • Burst Pipe Monitoring • Data Center Leak Monitoring • Water Intrusion Monitoring
	LoRaWAN Multi-Sensor Temperature and Humidity with Water Rope for Indoor Use This wireless sensor utilizes an internal temperature and humidity sensor to measure temperature and humidity levels. An external water permeable "rope" detects the presence of water.	

MultiTech Device Management Console

The MultiTech 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	United States/ Canada	
Sensor Type	LoRaWAN® Temperature & Humidity with External Water Probe (Indoor Use)	LoRaWAN Temperature & Humidity with External 1M Water Rope (Indoor Use)
Part Number	RBS3010NA22BN00	RBS3010NA22BN08
LoRa® Wireless		
Frequency Band (MHz)	902-928	
Channel Plan	US915	
Protocol	LoRaWAN compliant	
Antenna Peak (typical) Antenna Gain	0.3dBi	
Power		
Battery Powered	Yes	
Battery Type/Qty	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		
Physical Dimensions (LxWxH)	2.81" x 1.46" x 0.75" (71.37mm x 37.08mm x 19.05mm)	
Physical Weight	68g	94g
Enclosure Type	ABS Plastic, IP30, indoor rated	
Mounting	Double Sided Tape or Screw	
Range	-40° to +50°C (Temperature) / 10-90% (Humidity) Water Present/Water not Present (Water Detect)	
Resolution	0.1°C (Temperature) / 1% (Humidity) Programmable Threshold Settings (Water Detect)	
Accuracy	+/-0.2°C Typ. from 0° to 70°C (Temp) +/-0.6°C Typ. from -40° to 0°C (Temp) 2% Typ. (Humidity) The Wet and Dry Conductivity Thresholds Are Configurable (Water Detect)	
Environmental		
Operating Temperature	-40 to +50°C	
Operating Humidity	10 - 90% (non-condensing)	
Storage Temperature	-40° to +45°C (Battery life may be impacted due to temperature fluctuation)	
Certifications		
Compliance	FCC/IC, REACH, ROHS	
Warranty	2-Years / www.multitech.com/legal/warranty	

See user guide for more information.

SENSOR SPECIFICATIONS OVERVIEW

Item / Type	Description			
LoRa® Region	European Union/United Kingdom		Australia/New Zealand	
Sensor Type	LoRaWAN Temperature & Humidity with External Water Probe (Indoor Use)	LoRaWAN Temperature & Humidity with External 1M Water Rope (Indoor Use)	LoRaWAN Temperature & Humidity with External Water Probe (Indoor Use)	LoRaWAN Temperature & Humidity with External Water Rope (Indoor Use)
Part Number	RBS3010EU22BN00	RBS3010EU22BN08	RBS3010AU22BN00	RBS3010AU22BN08
LoRa® Wireless				
Frequency Band (MHz)	863-870		915-928	
Channel Plan	EU868		AU915/AS923	
Protocol	LoRaWAN compliant			
Antenna Peak (typical) Antenna Gain	0.3dBi		0.8dBi	
Power				
Battery Powered	Yes			
Battery Type/Qty	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				
Physical Dimensions (LxWxH)	2.81" x 1.46" x 0.75" (71.37mm x 37.08mm x 19.05mm)			
Physical Weight	68g	94g	68g	94g
Enclosure Type	ABS Plastic, IP30, indoor rated			
Mounting	Double Sided Tape or Screw			
Range	-40° to +50°C (Temperature) / 10-90% (Humidity) Water Present/Water not Present (Water Detect)			
Resolution	0.1°C (Temperature) / 1% (Humidity) Programmable Threshold Settings (Water Detect)			
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Environmental				
Operating Temperature	-40 to +50°C			
Operating Humidity	10 - 90% (non-condensing)			
Storage Temperature	-40° to +45°C (Battery life may be impacted due to temperature fluctuation)			
Certifications				
Compliance	CE, RED, UKCA, REACH, ROHS		AS/NZS CISPR 22; RCM; AS/NZS 4268:2012 + a1:2013, MPE Standard 2014; AS/NZS 62368.1:2018 / IEC 62368-1:2014	
Warranty	2-Years / www.multitech.com/legal/warranty			

See user guide for more information.

ORDERING INFORMATION

MultiTech Sensors

Model	Description	Region
RBS3010NA22BN00	LoRaWAN Temperature and Humidity with External Water Probe for Indoor Use (1Pk)	United States/ Canada
RBS3010NA22BN08	LoRaWAN Temperature and Humidity with External 1M Water Rope for Indoor Use (1Pk)	United States/ Canada
RBS3010EU22BN00	LoRaWAN Temperature and Humidity with External Water Probe for Indoor Use (1Pk)	European Union/ United Kingdom
RBS3010EU22BN08	LoRaWAN Temperature and Humidity with External 1M Water Rope for Indoor Use (1Pk)	European Union/ United Kingdom
RBS3010AU22BN00	LoRaWAN Temperature and Humidity with External Water Probe for Indoor Use (1Pk)	Australia/ New Zealand
RBS3010AU22BN08	LoRaWAN Temperature and Humidity with External 1M Water Rope for Indoor Use (1Pk)	Australia/ New Zealand

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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