About the LoRaWAN® Wireless Door/ Window Sensor with Air Temperature and Humidity

The MultiTech LoRaWAN Wireless Door/Window Sensor with Air Temperature and Humidity detects door/window open and close events and reports air temperature and humidity. This sensor uses a magnet to detect open/close events for doors, windows, or other applications while reporting environmental conditions near the access point. It is intended for use in building/commercial property, retail stores and restaurants, for refrigeration/freezer monitoring, or garage doors.

Ordering Options

Ordering Part Number	Description	Region
RBS3010NA27BN00	LoRaWAN Door/Window Sensor with Air Temperature & Humidity for Indoor Use	Canada United States
RBS3010EU27BN00	LoRaWAN Door/Window Sensor with Air Temperature & Humidity for Indoor Use	European Union United Kingdom
RBS3010AU27BN00	LoRaWAN Door/Window Sensor with Air Temperature & Humidity for Indoor Use	Australia New Zealand

Specifications

Category	Description		
Operational Characteristics			
LoRaWAN Region	Canada United States	European Union United Kingdom	Australia New Zealand
Sensor Type	LoRaWAN Door/Window with Air Temp & Humidity (Indoor Use)		
Part Number	RBS3010NA27BN00	RBS3010EU27BN00	RBS3010AU27BN00
LoRa® Wireless Frequency Band (MHz)	902 to 928	863 to 870	915 to 928
Channel Plan	US915	EU868	AU915/AS923
Protocol	LoRaWAN compliant		
Antenna	Peak (typical) antenna gain is 0.3dBi for US/Canada/EU/UK and 0.8dBi for AU/NZ		
Power	Battery powered; replaceable		
Battery Type	CR123A; quantity: 1		
Battery Life	Optimized solution: up to 10 years battery life; see GitHub - MultiTech-Sensors/Technical_Information: Tech Data, Decoders, and Battery Life Calculators		
Physical Characteristics			
Dimensions (L×W×H)	2.81" × 1.46" × 0.75" (71.37 mm × 37.08 mm × 19.05 mm)		
	Magnet: 1.25" × 0.7" × 0.5" (31.75 mm × 1.77 mm × 12.7 mm)		
Weight	44g including magnet and magnet enclosure		
Enclosure Type	ABS Plastic, IP30, indoor rated		
Mounting	Double Sided Tape or Screw		
Range	Door / Window States: (Open and Close) with customizable state timing threshold		
Resolution	Boolean State (Programmable setting time for open or close)		
Accuracy	+/-0.2°C Typ. from 0°C to 50°C (Temp) +/-0.6°C Typ. From -40°C to 0°C (Temp) 2% Typ. (Humidity) 10 to 15 mm Detection Distance (Door Window)		
Environmental			
Operating Temperature	-40°C to +50°C		
Operating Humidity	10% to 90% (non-condensing)		

Category	Description
Storage Temperature	-40°C to +45°C (battery life may be impacted due to temperature fluctuation)

Certifications		
Compliance	FCC/IC, REACH, ROHS	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	
Warranty	2-Years / www.multitech.com/legal/warranty

See user guide for more information.

Contact Information

General Information	info@multitech.com https://multitech.com/contact-us/
Sales	+1 (763) 785-3500 sales@multitech.com
Technical Support Portal	+1 (763) 717-5863 https://support.multitech.com
Website	www.multitech.com
World Headquarters	Multi-Tech Systems, Inc. 2205 Woodale Drive Mounds View, MN 55112 USA