



WLRI-EB1



Wireless Push Button

The WLRI-EB1 wireless push button can be used with our smart gateway to signal emergency or service requests in a facility. LoRa technology gives exceptional wireless range for many other applications. This button can be also be linked with our annunciator/siren to activate audio/visual signal.

Features:

- Super Long Range Signal Penetration
- 5 years plus Battery Life*
- Easy Installation
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Over-the-air updates
- Interactive WatchNET IoT platform with dashboard, search and notification settings



Applications:

- Emergency alert
- Push button for service
- Any other application requires push button

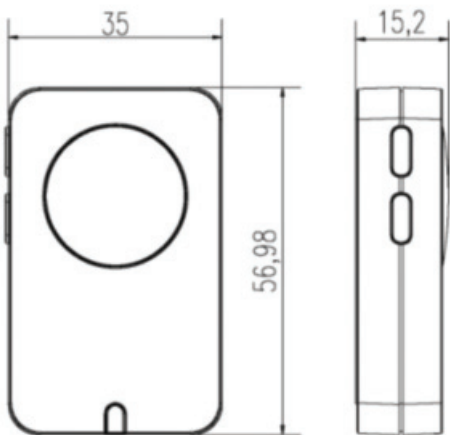
Schematic Diagram:



Technical Specifications

Electrical	
Input Power	2pcs 3.0V CR2450 button battery*
Working Voltage	DC 2.4V ~ 3.0V
Standby Current	13uA/3.0V
Receiving Current (max)	11mA@3.0V
Transmitting Current (max)	120mA/3.0V
Low Voltage Threshold	2.4V
Battery Voltage Measurement Accuracy	±0.1V
Frequency	
TX Power	19dBm±1dBm
Rx Sensitivity	-136dBm (LoRa, Spreading Factor=12, BitRate=293bps) -121dBm (FSK, Frequency Deviation=5kHz, BitRate=1.2kbps)
Antenna Type	Built-in antenna
Communication Range	Up to 500m/0.310miles, the actual transmission distance depends on the environment*
Data Transfer Rate	0.3kbps ~ 50kbps
Spread Technique	LoRa/FSK
Available Frequency	EU863-870, US902-928, Configured before shipment
Physical	
Dimension	57mm x 35mm x 15.2mm / 2.24" x 1.38" x 0.60"
Weight	45g / 0.1lb
Protection Class	Main Part IP30
Environment Temperature Range	-20°C ~ 55°C / -4°F ~ 131°F
Environment Humidity Range	<90%RH (No condensation)
Storage Temperature	-40°C ~ 85°C / -40°F ~ 185°F

Dimensions



* Actual signal range may vary depending on the environment.

* Battery life is determined by sensor reporting frequency and other variables.

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