Door Contact Sensor RF Transmitter

Features

- Magnetic Door Switch Sensor c/w Radio Transmitter
- Monitor Real Time on Smartphone/PC anywhere with Riot Hub
- Radio Transmitter FSK/FHSS LoRa
- LoRa Mode Up to **6Km** Range
- FM Range upto 1Km
- Auto Send Trigger Level Alerts to:
  - To Local Switching RF Receiver
  - Android Smartphone via RIoT Hub
- Power 2 x AAA Battery (supplied) or
- 5 - 15Vdc Supply via Screw Terminals
- Battery Life >1Million Transmissions
- Weatherproof IP68 Enclosure



Description

Supplied ready to deploy, this RIoT Sensor transmitter can be used to monitor a Door/ Window or other opening/closing device and automatically transmit an RF signal.
When a change is detected an immediate signal is sent to alert the user and can also directly trigger a local RF Receiver to provide a local Relay changeover switch.
Used in conjunction with a RIoT hub the user can monitor the status on a Smartphone / PC via the internet anywhere in the world. Trigger levels can be set to directly activate a local RF Receiver (which provides switching relay contacts), and alert notification sent to an Android smartphone.

Ordering Information

Part Number	Description
SENW-DC-8T1	Door Contact Transmitter 868MHz
SENW-DC-9T1	Door Contact Transmitter 918MHz

RIoT Door Contact RF Transmitter

Application example



Technical Specification:

Dimensions Main Enclosure: 92 x 92 x 59mm
Surface Mounting Door Contact: 68 x 15 x 13mm

Operating Temperature: 0 to +70ºC (limited by battery)

Electrical Characteristics	Min	Typical	Max	Units
Supply Voltage Battery External Supply	 2.8 5	 3	 3.3 15	Vdc
Operating Frequency		869.500 918.000		MHz
RF Output power			+22	dBm
Supply Current: Whilst Asleep (between taking readings) Whilst Transmitting		 5 118		 uA mA
Supply Current: Receiving Data		13		mA
RF Packet TX Transmit operation: FM LoRa Mode 7 (Longest Time)		 20 1.28		 mSecs

Battery Life (Estimated)

Depends on several factors;

- The time interval between RF Transmissions
- FM / FHSS LoRa Mode
- The ambient Temperature

*Battery life calculations are theoretical, actual battery life may vary

Operations	FSK	FHSS (LoRa)
1 per Min	8 months	3 months
2 per Hour	19 years*	7 years
1 per Hour	39 years*	10 years

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