Water Leak Sensor RF Transmitter

Features

- Sensor c/w Radio Transmitter
- Monitor Real Time on Smartphone/PC anywhere with RIoT MINIHUB
- Radio Transmitter FSK/FHSS LoRa
- LoRa Mode up to **6Km** Range
- FM Range up to 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 Sensor can be wall or floor mounted and incorporates contacts which activate when in contact with water. The sensor provides automatic status updates (sensor input, battery level, signal strength). When water 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-WL-8T1	Water Leak Transmitter 868MHz
SENW-WL-9T1	Water Leak Transmitter 918MHz

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Application example



Technical Specification:

Dimensions Main Enclosure: 92 x 92 x 59mm
Sensor: 64 x15 x 13mm ABS Body Copper Contacts

Operating Temperature: 0 to +70°C (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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