
Wireless Water Leak Detection and Location Sensor



RA07W

Datasheet

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Introduction

RA07W is a water leak detector leak locating equipment, which can be connected to water leak sensor through the external four-core positioning leak detection sensor line to detect the water leak location, and transmit the detected data to other devices through the wireless network.

Fully compatible with LoRaWAN™ protocol.

Main features

- Compatible with LoRaWAN™ protocol
- Detection of water leak detection line contact with the water location
- Power supply: DC 12V
- Adopt SX1276 wireless communication module
- Compatible with LoRaWAN™ Class A
- Frequency hopping spread spectrum technology
- Configuring parameters and reading data via the third-party software platforms, and set alarms via SMS text and email (optional)
- Applicable to the third-party platforms: Actility/ ThingPark/ TTN/ MyDevices/ Cayenn

Electric

Power Supply	Adapter DC powered (12V/1A)
Operating Current 1	40mA (no radio frequency signal transmission)
Operating Current 2	80mA (a radio frequency signal emission)
Line Length	Water leak detector line 3m+ extension line 1m (default) (Water leak detector line is up to 100m)
Leak Detection Error Range	1% ± 0.5 meters of sensor line length

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Frequency

Frequency Range	863MHz-928MHz, 470MHz-510MHz
TX Power	US915 20dbm; AS923 16dbm; AU915 20dbm; CN470 19.15dbm; EU868 16dbm; KR920 14dbm; IN865 20dbm;
Rx Sensitivity	-121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps) -136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps)
Antenna Type	Build-in antenna
Communication Range	10km (visible linear obstacle-free transmission distance, actual transmission distance depending on the environment)
Data Transfer Rate	0.3kbps~50kbps
Modulation	LoRa / FSK
Support LoRaWAN Band	EU863-870,US902-928,AU915-928,KR920-923,AS923-1, AS923-2,AS923-3,IN865-867,CN470-510 (Note: The frequency band is optional and needs to be configured before shipment)

Physical

Dimension	111mm*86mm*41mm
Working Temp	-20°C ~ 55°C
Humidity Detecting Range	5%RH~95%RH
Storage Temp	-40°C ~ 85°C