
Wireless Water Leak Detection and Location Sensor



RA07W

Datasheet

Copyright©Netvox Technology Co., Ltd.

This document contains proprietary technical information which is the property of NETVOX Technology. It shall be maintained in strict confidence and shall not be disclosed to other parties, in whole or in part, without written permission of NETVOX Technology. The specifications are subject to change without prior notice.

Wireless Water Leak Detection and Location Sensor

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)
Position Water Leak Detector	100m (max)
Leak Detection Error Range	1% ± 0.5 meters of sensor cable length

Wireless Water Leak Detection and Location Sensor

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