Mini Leak Detection Sensor

Featuring LoRaWAN®

WS303



WS303 is a tiny and mighty leakage detection sensor for detecting presence of water leaks and transmitting an alarm using LoRaWAN® technology. With this low power consumption technology, WS303 can work up to 5 years with a 590mAh battery. Compliant with Milesight D2D protocol, it can directly link with other Milesight devices to realize danger prevention and effectively prevent unnecessary loss.

Users can receive real-time alarms via a built-in buzzer locally and a mobile App remotely. Combining with Milesight LoRaWAN® gateway and Milesight Development Platform, users can manage all sensor data remotely.

The wire-free WS303 can be easily used in smart offices, buildings, and houses.

◆ Features

- Detect the presence of conductive liquids using a small water probe
- A replaceable built-in 590mAh battery with up to 5 years of life for wire-free power supply
- IP67 waterproof enclosure for harsh environment applications
- Embedded with a buzzer for real-time alarming
- Support Milesight D2D protocol to enable ultra-low latency and direct control without gateways
- Equipped with NFC for easy configuration
- Compliant with standard LoRaWAN® gateways and network servers

- Quick and easy management with Milesight IoT Cloud solution and Milesight Development Platform

◆ Specifications

Wireless Transmission	
Technology	LoRaWAN®, Milesight D2D
Antenna	Internal Antenna
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16dBm(868 MHz)/20dBm(915 MHz)/19dBm(470 MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Leakage Detection	
Liquid Type	Conductive Liquid
Trigger Condition	Once Liquid Level Reaches 0.5mm
Others	
Buzzer	Support
Configuration	Mobile App via NFC or Downlink
Advanced Feature	Milesight D2D Controller, Water Leakage Alarm
Physical Characteristics	
Power Supply	1 × 590mAh CR2450 Lithium Battery
Battery Life*	Around 5.7 years (One hour leakage per week, 25°C)
Operating Temperature	-10°C to +60°C
Relative Humidity	0% to 100% (Non-condensing)
Ingress Protection	IP67
Dimension	63 × 63 × 14 mm
Weight	36.4g (Battery included), 29.8g (Battery excluded)
Material & Color	ABS+PC, White
Installation	3M Tape Mounting, Desktop
Approvals	
Regulatory	CE, FCC
Environmental	RoHS

* Tested under laboratory conditions and for guideline purposes only.

◆ Dimensions (mm)

