

# 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.

The wire-free WS303 can be easily used in smart offices, buildings, and houses. Users can receive real-time alarms via a built-in buzzer locally and a mobile App remotely. Combining with Milesight LoRaWAN® gateway and Milesight IoT Cloud, users can manage all sensor data remotely and visually.

## ◆ 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

## ◆ Specifications

### Wireless Transmission

Technology	LoRaWAN <sup>®</sup> , Milesight D2D
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	NFC Configuration via Mobile App
Advanced Feature	Milesight D2D Controller

### Physical Characteristics

Power Supply	1 × 590mAh CR2450 Lithium Battery
Battery Life*	5 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
Material & Color	ABS+PC, White
Installation	3M Tape Mounting, Desktop

\* Tested under laboratory conditions and for guideline purposes only.