

Mini Leak Detection Sensor

Featuring LoRaWAN®

WS303

Milesight



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

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|-------------|---|
| Technology | LoRaWAN [®] , 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

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|-------------------|---------------------------------|
| 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.