

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 [®] , 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.



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