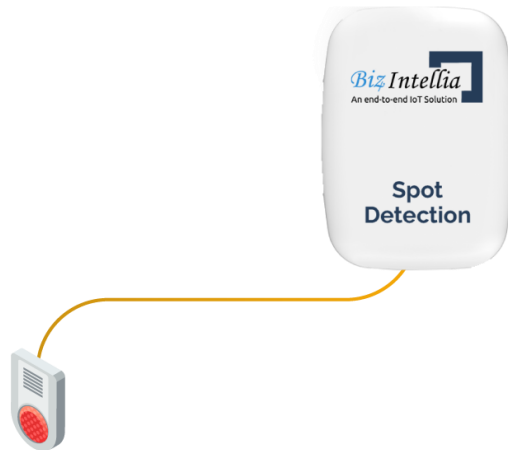


Intellia Spot Leak Detection Sensor

INT-SLD-01



Introduction:

Intellia Spot Leak Detection Sensor is a compact spot leakage detection sensor for detecting presence of water (or other liquids) and transmitting alarm using LoRaWAN technology. With this low power consumption technology, INT-SLD-01 can work up to 5 years with 4000 mAh battery. Combining with Biz4Intellia LoRaWAN gateway and Biz4Intellia IoT Platform, users can manage all sensor data remotely and visually and receive alarms via mobile APP.

Spot Leak Detection Sensor also integrates temperature and humidity sensors, which has a great use for applications such as pipe leakage monitoring, basement flooding, pump failure, etc.

◆ Features

- Detect the presence of liquids by a small water probe and based on the conductive principle
- Embedded with temperature and humidity sensors for environment monitoring
- Ultra-wide-distance transmission up to line of sight of 10km
- IP67 UV-resistant and waterproof enclosure for harsh environment applications
- Built-in 4000 mAh replaceable battery and works for 5 years without replacement
- Equipped with NFC for easily configuration
- Compliant with standard LoRaWAN gateways and network servers
- Quick and easy management with "Biz4Intellia IoT Platform"

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◆ Specifications

Wireless Transmission	
Technology	LoRaWAN
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-147dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
Leakage Detection	
Trigger Condition	When liquid level reaches 5mm
Cable Length	1.5m (customizable)
Temperature	
Range	-30°C to + 70°C
Accuracy	0°C to + 70°C (+/- 0.3°C), -30°C to 0°C (+/- 0.6°C)
Resolution	0.1°C
Humidity	
Range	0% to 100% RH
Accuracy	10% to 90% RH (+/- 3%), below 10% and above 90% RH (+/- 5%)
Resolution	0.5% RH
Operation	
Power On & Off	NFC, power button (Internal)
Configuration	Mobile APP(via NFC) or PC software (via USB Type-C)
Physical Characteristics	
Power Supply	1 × 4000 mAh ER18505 Li-SOCL ₂ battery (extendable to 2 batteries)
Battery Life*	>5 years (10 min interval and alarm once every day, SF10)
Operating Temperature	-30°C to +70°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP67
Dimension	105.6 × 85.3 × 27 mm (4.16 × 3.36 × 1.06 in)
Installation	Wall Mounting

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