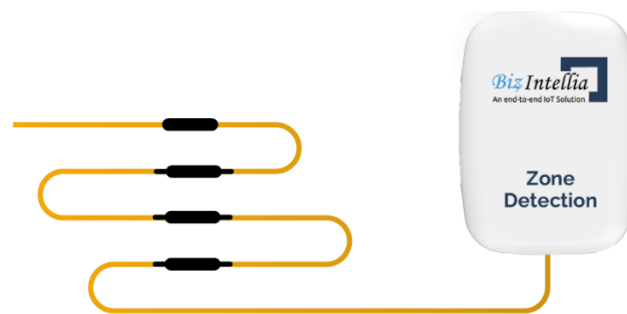


Intellia Zone Leak Detection Sensor

INT-ZLD-01



Introduction:

Intellia Zone Leak Detection Sensor is a compact zone leakage detection sensor for detecting large area presence of water (or other liquids) and transmitting alarm using LoRaWAN® technology. With this low power consumption technology, INT-ZLD-01 can work up to 5 years with a 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.

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

◆ Features

- Detect the presence of liquids by a long cable 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 |
| Detection Cable | 3m (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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