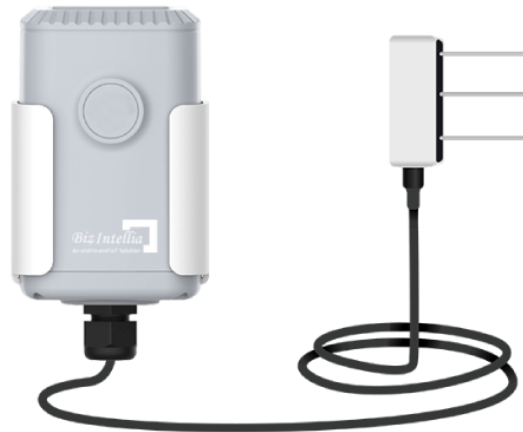


Intellia Soil Moisture Temperature & electrical Conductivity Sensor

INT-S-01



Introduction:

Intellia Soil Conductivity sensor is designed for measuring soil moisture, temperature, and electrical conductivity in harsh environments and transmitting data using LoRaWAN® technology. With this low power consumption technology, INT-S-01 can work up to 5years with 19000 mAh battery. Combining with Biz4Intellia LoRaWAN gateway and Intellia IoT Platform, users can manage all sensor data remotely and visually.

INT-S-01 is widely used for outdoor applications like smart agriculture, smart horticulture, etc.

◆ Features

- High precision for multiple kinds of soil
- Corrosion resistance and tough probe
- Ultra-wide-distance transmission up to line of sight of 10km
- IP66 waterproof enclosure for harsh environment applications
- Built-in 19000 mAh replaceable battery and work for 5 years without replacement
- Equipped with NFC for easy configuration
- Compliant with standard LoRaWAN gateways and network servers
- Quick and easy management with Biz4Intellia IoT Platform

◆ Applications

- Irrigation Control
- Greenhouse control
- Smart agriculture
- Smart horticulture
- Golf course maintenance

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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	
Moisture	
Range	0% ~ 100% RH
Accuracy	±2%(0~50%), ±3%(50%~100%)
Resolution	0.5%
Temperature	
Range	-40°C ~ 80°C
Accuracy	±0.5°C
Resolution	0.1°C
Conductivity	
Range	0~20000 µs/cm
Accuracy	±3%(0~10000 µs/cm), ±5%(10000~20000 µs/cm)
Resolution	1 µs/cm
Operation	
Power On & Off	NFC, power button (Internal)
Configuration	Mobile APP(via NFC) or PC software(via USB Type-C)
Physical Characteristics	
Cable Length	2 m
Power Supply	19000 mAh Li-SOCL ₂ battery (ER34615)
Battery Life*	4 years (10 min interval, SF12) >10 years (10 min interval, SF7)
Operating Temperature	-30°C to +70°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP66 (Transceiver)/IP68(Soil Sensor)

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Dimension	Transceiver: 105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in) Soil Sensor: 88 × 68 × 26 mm (3.5 × 2.7 × 1.0 in) (Probe length: 50mm/1.97 in)
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