

# LoRaWAN Soil Moisture & EC Sensor

## LSE01



## OVERVIEW:

The Dragino LSE01 is a LoRaWAN Soil Moisture & EC Sensor for IoT of Agriculture. It detects **Soil Moisture**, **Soil Temperature** and **Soil Conductivity**, and upload the value via wireless to LoRaWAN IoT Server.

The LoRa wireless technology used in LSE01 allows device to send data and reach extremely long ranges at low data-rates. It provides ultra-long range spread spectrum communication and high interference immunity whilst minimising current consumption.

LSE01 is powered by **4000mAh Li-SOCI2 battery**, It is designed for long term use up to 10 years. (Actually Battery life depends on the use environment, update period.)

Each LSE01 is pre-load with a set of unique keys for LoRaWAN registration, register these keys to local LoRaWAN server and it will auto connect after power on.

### Features:

- LoRaWAN v1.0.4 Class A
- Ultra low power consumption
- Monitor Soil Moisture
- Monitor Soil Temperature
- Monitor Soil Conductivity
- Temperature Compensation for measurements
- Bands: CN470/EU433/KR920/US915
- EU868/AS923/AU915/IN865
- AT Commands to change parameters
- Uplink on periodically
- Downlink to change configure
- IP68 for soil probe

### Order Info- LSE01-XX-YY

XX:

- XX: Frequency Bands, options:  
EU433,CN470,EU868,IN865,KR920  
AS923,AU915,US915

YY:

- 4 : 4000mAh Battery
- 8 : 8500mAh Battery

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