

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

The LoRa wireless technology used in LESO1 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.

LES01 is powered by 4000mA Li-SOCI2 battery, It is designed for long term use up to 10 years.

Each LESO1 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 v1.0.3 Class A
- Ultro 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

Specifications:

Soil Moisture:

- Range: 0-100.00%
- Resolution: 0.01%
 Accuracy: ±3% (0-53%);±5% (>53%)

Soil Conductivity:

- Range: 0-20000uS/cm
- Resolution: 1uS

Soil Temperature:

- Range: -40.00 °C ~85.00 °C
- Resolution: 0.01 C
 Accuracy: -10 C ~50 C:<0.3 C
 All other: <0.6 C

Order Info: LSE01-XX

XX:

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

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