

# Soil Sensor V04



Technical Datasheet Sensor V04

version 0.1

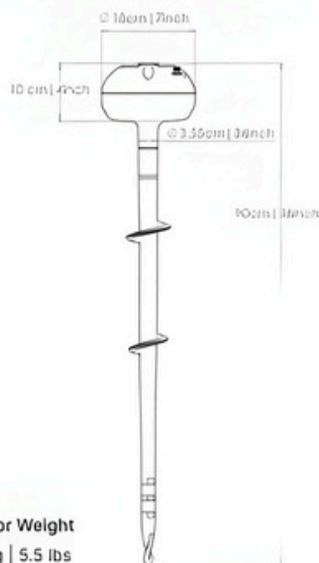
## PRODUCT SPECIFICATION

Measurement	Soil moisture – 3 depths Electrical conductivity – 3 depths Temperature – 2 depths
Power Supply	4.2V 10Ah Rechargeable Li-ion
Operating Voltage	3.6 V Nominal
Operating Temperature	-10 °C to 70 °C    -14°F to 158°F
Storage Temperature	-30 °C to 85 °C    -22°F to 185°F
Antenna Type	N-Type, 700-2700 MHz
Safety	CE, FCC, RoHS

## MEASUREMENTS

Soil moisture measurement depths	25, 40, 66 cm   8, 16, 26 inch
Soil moisture measurement protocol	FarmX Algorithm
Soil moisture Range and Accuracy	Moisture [VWC]: 0% - 60% +/-1%
Soil pore water conductivity	ECpw(dS/m): 0.05-18 +/- 0.1
Temperature measurement depth	8, 16 inch   25, 40 cm
Temperature Range	59 - 140 [F]   (-15) - (+60) [C°]
Temperature Accuracy	+/- 2[F]   +/- 1[C°]
Temperature Range	59 - 140 [F]   (-15) - (+60) [C°]

## PHYSICAL DIMENSIONS



Sensor Weight  
2.5 kg | 5.5 lbs

## INTERFACE & MANAGEMENT

Communication	Cellular: 2G/3G/4G (CAT-1 or CAT-M1) Bluetooth Low Energy (BLE)
Measurement	Length 30ms. Frequency every 30m (Customized) Cloud transmission is every 12 hours (Customized)
Data interface	FarmX App or Website (iOS, Android)