

Soil Sensor V04

Technical Datasheet Sensor V04

version 0.1

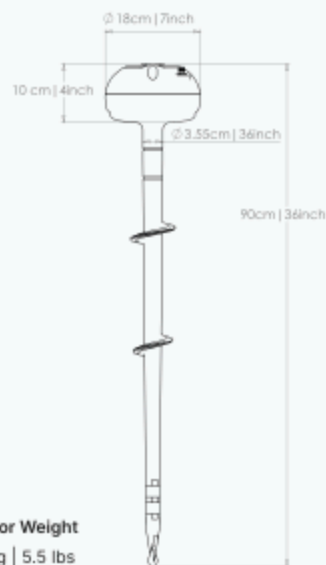
PRODUCT SPECIFICATION

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	CropX 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	CropX App or Website (iOS, Android)