

Vertex

Technical Datasheet – Vertex 4 (V4)



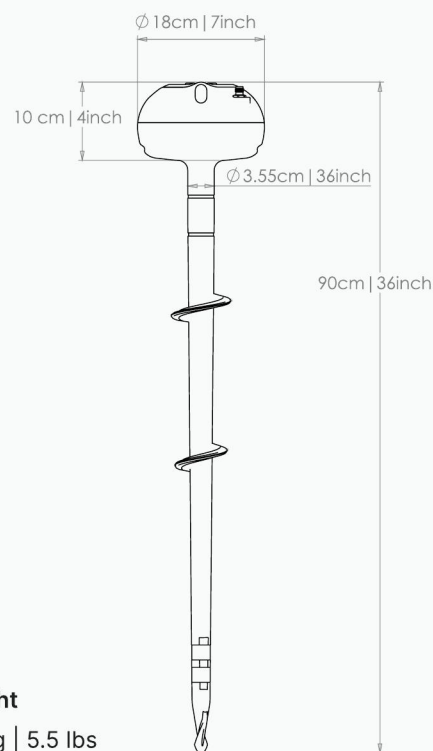
PRODUCT SPECIFICATIONS

Measurements	Soil moisture – 3 depths Electrical conductivity – 3 depths Temperature – 2 depths	
Power supply	4.2 V 10 Ah Rechargeable Li-ion	
Operating voltage	3.6 V Nominal	
Operating temperature	-20 °C to 60 °C	-4 °F to 140 °F
Storage temperature	-10 °C to 50 °C	14 °F to 122 °F
Antenna type	N-Type, 700-2700 MHz	
Certifications	CE, FCC, RoHS	

MEASUREMENTS

Soil moisture measurement depths	25, 40, 66 cm	8, 16, 26 inch
Soil moisture measurement protocol	Proprietary CropX algorithm	
Soil moisture range and accuracy	Moisture VWC: 0% - 60% $\pm 1\%$	
Soil pore water conductivity	ECpw(dS/m): 0.05 - 18.00 ± 0.1	
Temperature measurement depths	25, 40 cm	8, 16 inch
Temperature range	-15 to +60 °C	5 to 140 °F
Temperature accuracy	± 1 °C	± 2 °F

PHYSICAL DIMENSIONS



Weight
2.5 kg | 5.5 lbs

INTERFACE & MANAGEMENT

Communication	Cellular: 2G/3G/4G (CAT-1 or CAT-M1) Bluetooth Low Energy (BLE)
Data collection	Sensor measurements every 30 min Cloud transmission every 12 hrs (both configurable)
Data interface	CropX web and mobile apps (iOS, Android)