



VERTEX

UNLOCK PROACTIVE INSIGHTS

The Vertex is a simple, innovative and cost-effective solution for enabling irrigation management, disease control, and nutrient monitoring across any crop type or irrigation practice.

The predictive soil data captured by the hardware combined with an industry leading agronomic software platform, makes the Vertex 4 part of the most user-friendly, powerful, and effective agronomic farm management platform on the market today.



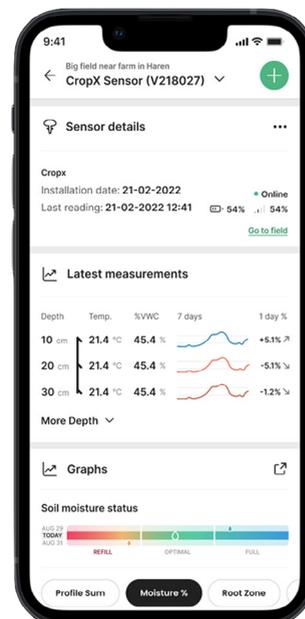
Fully enclosed all-in-one soil sensing to cloud solution - built-in telemetry and power source eliminate the need for an extra device



The patent-pending spiral design improves the accuracy of soil data readings by preventing preferential water flow



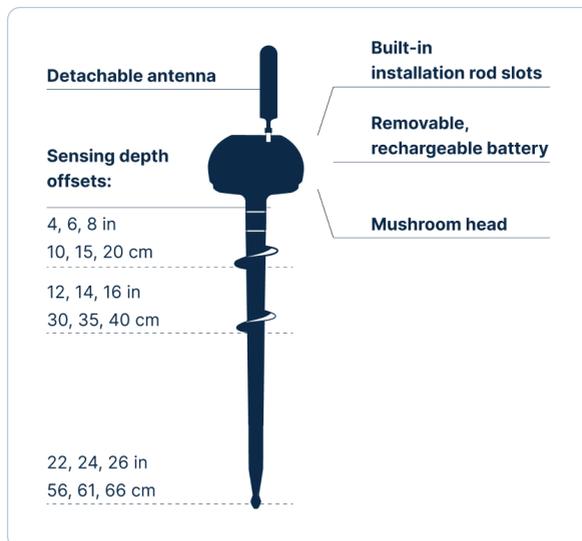
The sensor can be installed by anyone quickly - made even easier with a new tapered design, smaller spirals, and built-in installation rod slots



Designed for Flexibility

CropX designed the SV4 to make it even more reliable and customizable

- Measurements of VWC and EC at all 3 depths and temperature at the top two depths
- Virtual sensing - calculating moisture every 4 in. from 8 in. to 26 in., or every 10 cm from 20 cm to 66 cm
- Sensor depth offset – for installation at varying depths to match optimal crop rooting needs
- Automatic soil water budget line detection



CropX SV4 Data Collection

Intervals of data measurement and transmission to the CropX cloud can be remotely configured and adjusted to each crop's unique needs. The data is geo-tagged based on GPS coordinates creating geospatial time series for all measured data.

Moisture: Measurement of volumetric water content (VWC) values via ADR sensors. Moisture values are converted from electric impedance to VWC levels using a proprietary self-calibration method. Moisture values have an accuracy of +/- 0.5% across a range of 0-60% VWC.

Temperature: Measurement with an accuracy of +/- 1 °C (+/- 2 °F) (max) and an operating range of -10 °C to 70 °C (14 °F to 158 °F). Each unit also measures the internal temperature of the unit above ground, which can help with increasing the precision of weather data.

Electrical Conductivity (EC): Measurement in decisiemens/m, with an operating range of 0-5 decisiemens/m (bulk), representing the soil salinity level, which can be used to manage crop salinity regime.



Learn more about CropX solutions today!

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