

## Osmo - Soil Moisture Probe

**Technical Specifications** 

Osmo is an advanced, temperature compensated, soil moisture sensing solution. Capable of measuring every 6 inches of depth, Osmo delivers real-time insights across all soil types. With rugged durability and cutting-edge connectivity options, Osmo is engineered for seamless operation in challenging environments, empowering users with actionable data to monitor crop data.



## **Hardware Specifications**

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Unit of Measure:	• VWC 0%-100%
Temperature Accuracy:	• 0.1° C
Operating Voltage:	<ul> <li>3.3V - 16V (Modbus: 3.3V - 8V; SDI-12: 9-16V)</li> <li>Reverse Polarity protection</li> <li>25V over voltage protection</li> </ul>
Standard Interfaces:	<ul><li>SDI-12</li><li>RS485 (Modbus)</li></ul>
Design Stability:	<ul> <li>Designed to provide consistent data over a wide range of field environments</li> <li>Temperature compensated calibration</li> <li>Characterized from 14°F to 140°F (-10°C to 60°C)</li> <li>Calibration data stored onboard</li> </ul>
Measurement Depths:	<ul> <li>Architecture supports 1 – 16 measurement segments*</li> <li>6 inch segment lengths to support granular soil moisture measurements</li> <li>2 ft and 4 ft standard offerings</li> </ul>

• Segment readings performed in <0.5 seconds

Low sleep power consumption<100mW while measuring</li><10mW in standby mode</li>

Rugged Design:
• IP67 rating

• Designed for easy and safe installation and extraction

Warranty: • 24 months

**Measurement Speed:** 

Power Management: