

growlink 



Terralink Substrate Sensor

Real-Time Root Zone Intelligence
(VWC, EC, Temp)

Growlink is an agriculture software company that optimizes performance for cutting-edge greenhouses and indoor farms.





Features

Introducing the Terralink Substrate Sensor, featuring the industry-leading capacitance technology. Designed to provide precise and reliable soil moisture data, our sensor helps you optimize your farm's irrigation system and make better-informed decisions for your crops. With the Terralink Substrate Sensor, you can ensure your plants receive the right amount of water at the right time, reducing waste and maximizing yield.



Measure VWC



Measure Pore EC



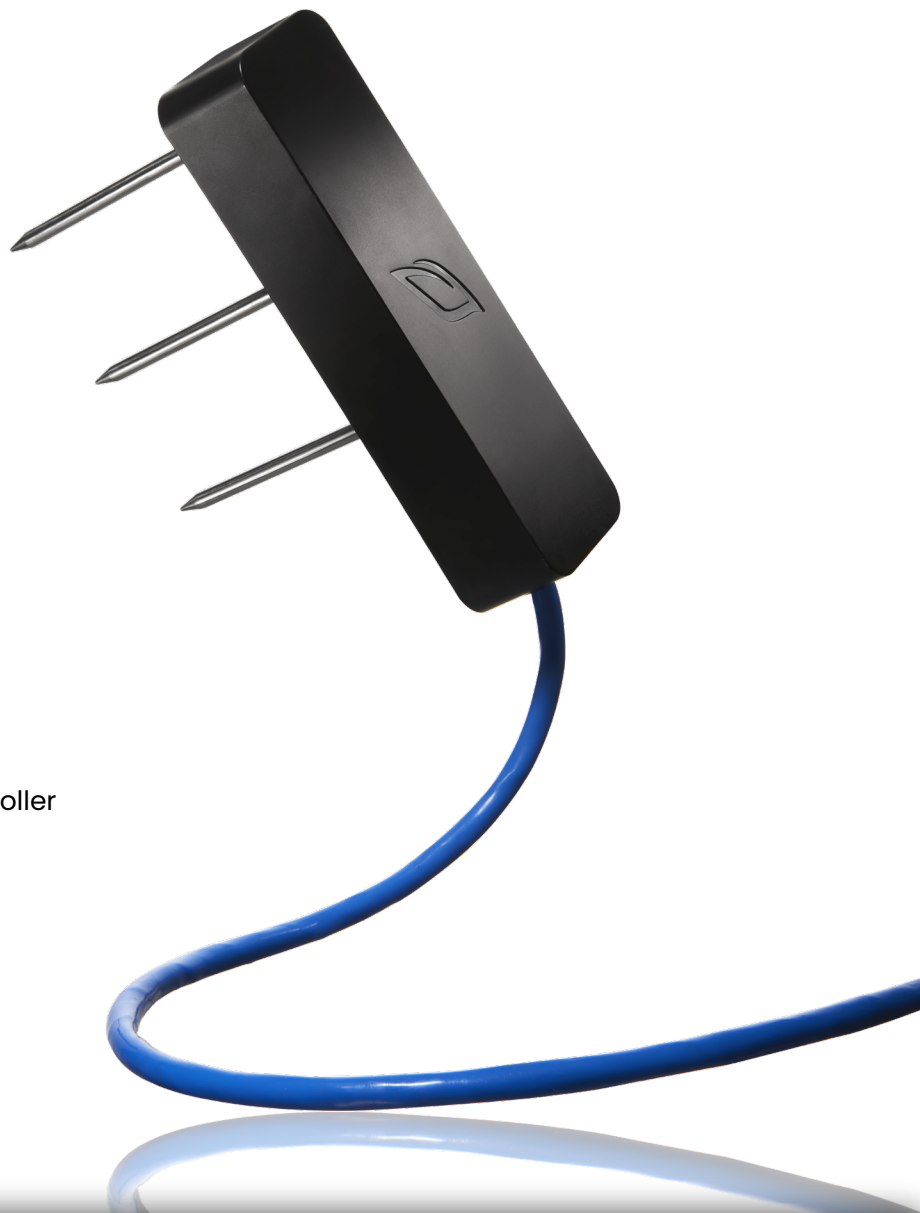
Measure Temperature



Works with Precision Irrigation Controller
and Connect Controller



30 Second Data Resolution





Benefits

Our Terralink Substrate Sensor offers unparalleled accuracy in measuring substrate moisture, temperature, and EC levels, delivering real-time root zone insights for optimal plant growth.

Crop Steer with Ease

Utilizing Copilot ensures uniformity and consistency in every harvest through automated AI-driven crop steering and precision irrigation control.

Versatile Applications

Supporting both Rockwool and Coco-based media, the Terralink Substrate Sensor is the ideal solution for diverse growing preferences.

Ready to Use

Allows for seamless and hassle-free operation without the need for calibration, making it user-friendly right from the start.



Specifications

Output Interface:

SDI-12, V1.3
Power Supply - 3.6-16V/DC
Power Consumption - Quiescent Current : 30uA
Measuring Current : 10mA during 150ms measurement
Soil Moisture Measurement
Apparent dielectric permittivity ():

Moisture Measurement (VWC):

Range: 1%-81% (air - water)
Resolution: 1.00-40.00: ±0.1,40.00-81.00: ±0.5
Accuracy: 1.00-40.00: ±2%,40.00-81.00: ±5%

EC Measurement

Range: 0-23ds/m
Resolution: 0-7ds/m, 0.01ds/m; 7-23ds/m, 0.05ds/m
Accuracy: 0-7ds/m, 5%; 7-23ds/m,15%
EC temperature compensation: 0-50°C

Temperature Measurement:

Range: -40-80°C, Resolution: 0.1°C, Accuracy: ±0.5°C
IP Ratings
IP68

Operating Temperature:

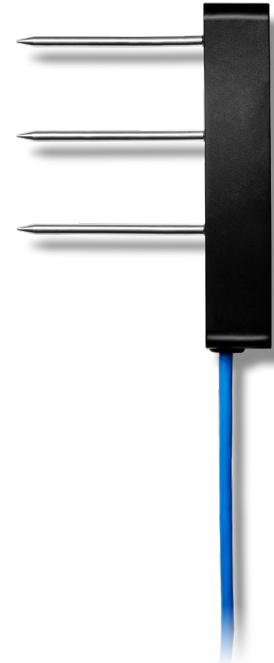
-40-85°C
Sensor Rod: Stainless steel
Sensor Sealed: Epoxy resin

Wired Communication:

Operating Frequency: 1200Hz

Installation:

Surface or buried installation
Cable Length: 30 feet
Dimension 88*71*26mm



Terralink Substrate Sensor
Installation

Compatible with:
Growlink OS



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