

SOIL MOISTURE INSIGHTS FROM THE GROUND UP



Understanding what happens below the soil is essential for making timely, informed decisions in agriculture, greenhouses, and environmental monitoring. The LI-300 and LI-350 Soil Moisture Sensors provide soil moisture, temperature, and electrical conductivity (LI-350) data to help you move forward quickly and confidently across any soil, anywhere.

KEY FEATURES

- Reliable soil moisture data for confident decision-making
- Versatile across a variety of soil types and substrates
- Easy-to-repeat placement using the circular soil probe design
- Rugged build for long-term, indoor/outdoor, and multi-season use
- Two sensor options for everyday tasks or advanced data needs

WHY IT MATTERS

The LI-300 and LI-350 are flexible, practical, and consistent. They are suited for greenhouse pots and trays and long-term outdoor deployments alike, and their design makes deploying and repositioning them quick and easy—all while delivering clear, trusted data.

- Dependable soil moisture insights help improve water use, crop health, and more
- Easy deployment means faster measurements for quick, everyday decision-making
- Direct data via SDI-12 (LI-350) simplifies data handling and reduces the risk of user error





WHICH SYSTEM?

The LI-300 and LI-350 integrate seamlessly with many existing systems—including LI-COR and HOBO systems, common irrigation systems and controllers, third-party data loggers, and more. Add them to your platform to expand your coverage and get even more data that you can trust.

SPECIFICATIONS

VOLUMETRIC WATER CONTENT

Range: 0.0 to 1.0 m³ m⁻³

Resolution: 0.001 m³ m⁻³

Accuracy*:

±0.03 m³ m⁻³ typical

±0.06 m³ m⁻³ maximum

DIELECTRIC PERMITTIVITY**

Range: 1 (air) to 80 (water) dielectric permittivity units

Resolution: 0.002 dielectric permittivity units

Accuracy: ±1.0 dielectric permittivity units

*For factory calibration soils.

**Specifications exclude errors from the Topp (1980) approximation.

Specifications subject to change without notice.

TEMPERATURE

Range: -40 to 70 C

Resolution: 0.1 C

Accuracy:

±0.5 C from -40 C to -20 C

±0.3 C from -20 C to 70 C

ELECTRICAL CONDUCTIVITY (BULK)

Range: 0 to 20000 μS cm⁻¹

Resolution: 1 μS cm⁻¹

Accuracy:

±5 % from 0 to 10000 μS cm⁻¹

±8 % from 10000 to 20000 μS cm⁻¹

To learn more about LI-300 and
LI-350 Soil Moisture Sensors, visit:

[licor.com/soil-moisture-sensors](https://www.licor.com/soil-moisture-sensors)

