

EC-5 Soil Moisture Sensor

SPECIFICATIONS

Range: 0-100% VSW

Accuracy: ±3% typical

±1-2% with soil specific calibration

Output range:

375 mV (dry soil) to

1000 mV (saturated)

Output voltages proportional to volumetric water content

Measurement time: 10 ms

Operating temperature: -40–60°C

Warranty: 1 year.

Power requirements:

2.5 VDC @ 10mA

Dimensions:

EC-5:

9.0 cm L x 1.9 cm W

A low cost sensor for measuring volumetric water content of soil.

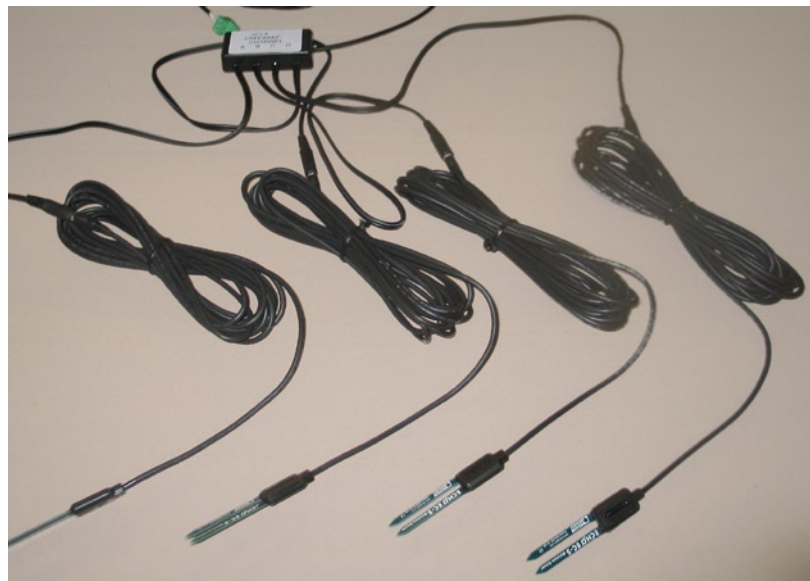
Measuring or monitoring soil moisture content helps determine when to irrigate, how much water to apply, depth of wetting, patterns of soil moisture extraction by roots, and trends in soil moisture content with time. Soil moisture determines the transport and storage of dissolved nutrients and pollutants and the availability of water to plants.

Soil Water Content

ECH₂O is a capacitance probe that measures dielectric permittivity of the surrounding medium. In soil, dielectric permittivity is directly related to the water content. The ECH₂O probe outputs a voltage proportional to the dielectric permittivity, and therefore the water content of the soil.

Features

- High resolution allows daily or hourly tracking of water use
- Voltage output proportional to water content
- Low-cost dielectric water content sensor
- Low sensitivity to salt and temperature
- Very low power requirement



Up to 4 EC-5 probes connect through each SME-5 Smart Interface



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