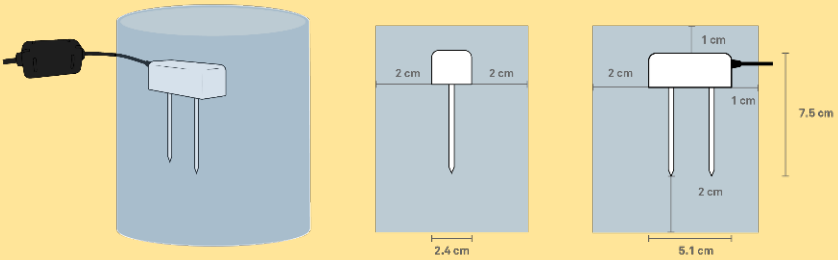
METER
ENVIRONMENT

TEROS-10 Simple Soil Moisture Sensing



- Low-cost, ruggedized soil moisture sensor
- Ideal for large sensor networks
- Sharpened stainless steel needles are securely fastened and reduce breakage
- Compatible with TEROS Borehole Installation Tool ensuring fast, error-free installation with little site disturbance
- Measure VWC in a harsh environment
- Robust epoxy body means it lasts for 10+ years in the field
- 430 mL volume of influence
- Plug and play with METER data loggers
- Ferrite core eliminates cable noise
- Easy integration with third-party systems

THE **TEROS-10** is a ruggedized version of our basic, no-frills soil moisture sensor. Its 70-MHz frequency minimizes salinity and textural effects, making it accurate in most soil or soilless media. With a tough, epoxy body, the TEROS-10 is designed to withstand some of the harshest field conditions, which means problem-free measurements over the longevity of your research. The TEROS-10 sensor lets you characterize your site with sensors at multiple depths and locations, even on a tight budget. The analog signal from the TEROS-10 sensor ensures that it can easily be integrated into a wide variety of non-METER systems.



SPECIFICATIONS

Volumetric water content (VWC)	Range: Mineral soil calibration: 0.00–0.64 m /m Soilless media calibration: 0.0–0.7 m /m Apparent dielectric permittivity (ε): 1 (air) to 80 (water) Resolution: 0.001 m /m Accuracy: Generic calibration: ±0.03 m /m (±3.00% VWC) typical in mineral soils that have solution EC <8 dS/m Medium specific calibration: ±0.01–0.02 m /m (±1–2% VWC) in any porous medium Apparent dielectric permittivity (ε): 1–40 (soil range) , ±1 ε (unitless) 40–80, 15% of measurement
Dielectric measurement frequency	70 MHz
Output	1,000 to 2,500 mV
Temperature	Operating range: −40 to 60 °C
Dimensions	Length: 5.1 cm (2.02 in) Width: 2.4 cm (0.95 in) Height: 7.5 cm (2.95 in)
Needle/Probe length	5.4 cm (2.11 in)
Cable length	5 m (standard) 40 m (maximum custom cable length)
Connector types	3.5-mm stereo plug connector or stripped and tinned wires
Supply voltage (VIN to GND)	Minimum: 3.0 VDC Typical: NA Maximum: 15.0 VDC
Operating temperature range	Minimum: –40 °C Typical: NA Maximum: 60 °C
Measurement duration	Minimum: 10 ms Typical: NA Maximum: NA
COMPLIANCE	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010 (CE Mark) 2014/30/EU and 2011/65/EU EN61326-1:2013 and EN55022/CISPR 22

מטאו-טק שירותים מטאורולוגיים בע"מ

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