



METER
ENVIRONMENT



TEROS 10

EASY INTEGRATION. EASY INSTALLATION. EASY EVERYTHING.

With improved high-quality, sharpened, and securely fastened stainless steel needles, the TEROS 10 glides into any soil. Then, simply plug it into any METER data logger, and start collecting data. It's that easy. No wiring. No programming. And, the analog signal from the TEROS 10 sensor ensures that it can easily be integrated into a wide variety of non-METER systems.

FEATURES

- 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
- Repeatability can be checked with an accuracy verification standard
- Plug and play with METER data loggers
- Ferrite core eliminates cable noise
- Easy integration with third-party systems

SPECIFICATIONS

VOLUMETRIC WATER CONTENT (VMC)

RANGE Mineral soil calibration: 0.00–0.64 m³/m³
Soilless media calibration: 0.0–0.7 m³/m³
Apparent dielectric permittivity (ϵ_a): 1 (air) to 80 (water)

RESOLUTION 0.001 m³/m³

ACCURACY Generic calibration: ± 0.03 m³/m³ ($\pm 3.00\%$ VWC) typical in mineral soils that have solution EC <8 dS/m
Medium specific calibration: ± 0.01 – 0.02 m³/m³ (± 1 – 2% VWC) in any porous medium
Apparent dielectric permittivity (ϵ_a): 1–40 (soil range), $\pm 1 \epsilon_a$ (unitless) 40–80, 15% of measurement

DIELECTRIC MEASUREMENT FREQUENCY 70 MHz

OPERATING

TEMPERATURE Range: –40 to 60 °C
Resolution: 0.1 °C
Accuracy: ± 0.5 °C from –40 to 0 °C
 ± 0.3 °C from 0 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)