



TEROS 32: SOIL WATER POTENTIAL SENSOR

DESCRIPTION

TEROS 32 is a simple, plug-and-play tensiometer that combines METER's legendary German precision engineering with the power of ZENTRA Cloud, giving you easier, faster, more accurate water potential data in near-real time. Just install it and plug it in. It's that easy. With ZENTRA Cloud software, you can review data as it happens from the comfort of your office, ensuring every tensiometer is working as expected. No more worrying if your tensiometer has cavitated. Combine the TEROS 32 with the TEROS 12, and you'll know the best time to go out and refill. Plus, you can use both sensors to generate in situ moisture release curves.



TEROS 32

FEATURES

- Ultra-reliable outdoor precision tensiometer
- Direct measurement with no need for calibration
- Measures both positive and negative pore pressure
- Plug and play with ZL6 data logger. Also compatible with third-party loggers
- See/share data in near-real time with ZENTRA Cloud
- 10-year warranty on the high-quality ceramic
- More affordable than its predecessors
- Integrated temperature sensor
- UV-resistant, durable shaft material
- Seals and screw connectors are watertight according to IP 68
- Extremely robust construction
- Year-round operation when installed deeper than 30 cm
- Can be refilled or emptied without removing from the soil.

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TEROS 32 is more robust than ever before. Technological advancements have made it possible to incorporate a more ruggedized, highly precise pressure transducer, giving you higher data resolution in an almost unbreakable form, and making the TEROS 32 more affordable than its predecessors. Plus, the ceramic and shaft are engineered to be virtually indestructible when it comes to harsh weather (10-year warranty on the ceramic), which means the TEROS 32 is a tensiometer you can rely on year after year in every season.

SPECIFICATIONS

MEASUREMENT SPECIFICATIONS	
Water potential	Range: -85 to +50 kPa Resolution: 0.0012 kPa Accuracy: ±0.15 kPa
Temperature	Range: -30 to +60 °C Resolution: ±0.01 °C Accuracy: ±0.1 °C between -20 and +40 °C (±1 °C outside of this range)
COMMUNICATION SPECIFICATIONS	
Output	DDI serial SDI-12 communication protocol
Data logger compatibility	METER ZL6 and EM60 data loggers or any data acquisition system capable of 3.6- to 28.0-VDC power and SDI-12. NOTE: For a non-METER data logger, a barometric reference sensor, either standalone or as part of a data logger, is needed as part of the system configuration to accurately measure soil water potential.
PHYSICAL SPECIFICATIONS	
Dimensions	Length: 40.0 cm (15.75 in) 80.0 cm (31.50 in) 120.0 cm (47.24 in) Diameter: 2.5 cm (0.98 in)
Operating temperature	Minimum: -30 °C (0 °C for water-filled tensiometer) Maximum: 50 °C
Materials	Ceramic: Al ₂ O ₃ , bubble point 1,500 kPa Shaft: PMMA Corpus: POM GF Refilling tubes: Stainless steel
Installation angle	10° to 80° from horizontal (downward) -10° to -80° from horizontal (upward)
Cable length	5 m (standard) 75 m (maximum custom cable length) NOTE: Contact Customer Support if a nonstandard cable length is needed.
Connector types	3.5-mm stereo plug connector or stripped and tinned wires
COMPLIANCE	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010 (CE Mark) 2014/30/EU 2011/65/EU

Contact info



Monitoring MENA

Insight into instrumentations

(962) 5353-2091

PO Box 1100 Salt

Post Code 19110 JORDAN

sales@monitoring-mena.com

www.monitoring-mena.com

This Instrument is manufactured by our principle company

METER Environment - USA