



METER

TEROS-32 ADVANCED FIELD TENSIO METER



Now, sit back, and relax

TEROS-32 is a simple, plug-and-play soil 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. 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 TEROS-32 with 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.

More robust, if that's even possible

Twenty-five years of tensiometer experience and fanatical attention to detail have made METER tensiometers practically bulletproof, but TEROS-32 tensiometer 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 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 TEROS-32 is a tensiometer you can rely on year after year in every season.

Spend more time on what matters

We think you should spend less time fussing with complex installations, and more time on your research. That's why unlike most tensiometers, TEROS-32 field tensiometer is now plug and play. Just insert the stereo plug into the ZL6 data logger, and start seeing numbers. TEROS-32 connects to ZENTRA Cloud system, where all data are connected and delivered through the cloud. Pull up your data instantly wherever you are, and you'll know exactly when it's time to refill, before trekking out to the field.

Faster field visits

To save you even more time and effort, we've outfitted TEROS-32 with an external refilling tube. No more pulling the tensiometer out of the ground. When it's time to refill, TEROS-32 can be filled externally without ever having to remove it, saving you hours of tedious maintenance. On top of all that, the tensiometer is highly responsive. It reacts much faster to changing-soil-conditions than lower-quality tensiometers, enabling you to measure even the most minute changes in soil water potential. Plus, it measures both positive and negative pore pressure.



BILMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ

Web page : www.bilmar.com.tr

E-mail : bilkim@bilmar.com.tr



TEROS-32 ADVANCED FIELD TENSIO METER

METER

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

Specifications

MEASUREMENT SPECIFICATIONS

Water Potential	Resolution: 0.0012 kPa Accuracy: ± 0.15 kPa Range: -85 to +50 kPa
Temperature	Range: -30 to 60°C Resolution: 0.1°C Accuracy: ± 0.1 °C for -20 to 40°C (± 1 °C outside of this range)

COMMUNICATION SPECIFICATIONS

Output	DDI serial, SDI-12 communication protocol
Data logger compatibility	METER data loggers (ZL6, EM60) or any data acquisition system capable of 3.6-28 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	Diameter: 2.5 cm Length: 40, 80, or 120 cm
Cable length	5 m (standard) * 75 m (maximum)
Connector types	3.5-mm stereo plug connector or stripped and tinned wires
Operating Temperature Range	-30°C (0°C for water-filled tensiometer) to 50°C
Materials	Shaft: PMMA Ceramic: Al ₂ O ₃ , bubble point 1,500 kPa Corpus: POM GF Refilling tubes: Stainless steel
Installation angle	10° to 80° from horizontal (downward) -10° to -80° from horizontal (upward)
COMPLIANCE (CE Mark)	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010



BILMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ

Web page : www.bilmar.com.tr

E-mail : bilkim@bilmar.com.tr