



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

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This Instrument is manufactured by our principle company

**METER Environment - USA**