



METER
ENVIRONMENT



TEROS 31

Lab Tensiometer

TINY TENSIO METER TACKLES BIG PROBLEMS

If you need spot measurements of water potential in soil columns, soil cores, or sampling rings, there aren't a lot of options. Until now. With the TEROS 31, we put our 25 years of expertise to work in the smallest space possible: a ceramic tip with a surface area of only 0.5 cm².

SMALL TENSIO METER—HUGE BENEFITS

For more than a quarter century, METER has been the leading expert in the development of tensiometers with over 10,000 sold. Nobody in the world makes an instrument this small, this simple, or this precise. Trust the TEROS 31 lab tensiometer for fast, accurate spot measurements in all your tightest spaces.

FEATURES

- Laboratory tensiometer
- Easy data visualization in real time: plug and play with ZL6 logger and ZENTRA Cloud
- Small and fast
- Little soil disturbance
- Extended range
- Install tensiometer in any position or orientation
- Bubbles easily detectable through the transparent shaft
- Output signals are balanced
- Accurate zero-tension reading

SPECS

| | |
|---------------------------------------|--|
| Water Potential | Range: -85 to +50 kPa (up to -150 kPa during boiling delay) Resolution: ±0.0012 kPa Accuracy: ±0.15 kPa |
| Temperature | Range: -30 to +60 °C Resolution: ±0.01 °C Accuracy: ±0.50 °C NOTE: If the sensor unit is not buried, measured temperature may diverge from soil temperature. |
| Output | DDI serial SDI-12 communication protocol TensioLINK™ communication protocol Modbus™ RTU communication protocol |
| Data Logger Compatibility | METER ZL6 and EM60 data loggers or any data acquisition system capable of 3.6- to 28.0-VDC excitation and SDI-12, Modbus RTU, or TensioLINK communication. |
| Dimensions | Width: 23.5 mm (0.93 in) Height: 49.0 mm (1.93 in) Depth: 17.5 mm (0.69 in) |
| Tensiometer Shaft Diameter | 5 mm (0.19 in) |
| Tensiometer Shaft Length | 2, 5, 7, 10, 15, or 20 cm |
| Materials | Ceramic: Al ₂ O ₃ , bubble point 500 kPa Shaft: PMMA Sensor Unit: PMMA and TPE |
| Operating Temperature Range | Minimum: 0.00 °C Maximum: 50.00 °C |
| Cable Length | 1.5 m |
| Cable Diameter | 3.0 mm (0.12 in) |
| Connector Types | 4-pin stereo plug connector |
| Stereo Plug Connector Diameter | 3.5 mm |
| Conductor Gauge | 31 AWG drain wire |