



**METER**  
ENVIRONMENT



# TEROS 21

## HIGHLY ACCURATE. YET LOW MAINTENANCE AND LOW COST

The TEROS 21 water potential sensor is incredibly easy to use. It requires no maintenance, and it's accurate enough for most applications. In fact, the TEROS 21 provides an even more accurate soil moisture picture than measuring water content alone. A water content sensor only shows the percentage of water in the soil, but add a TEROS 21, and you'll know if that water is available to plants and where it will move. Plus, unlike water content, matric potential isn't dependant on soil type, so you can compare moisture between different sites. Not only that, the TEROS 21 is surprisingly affordable, especially when you consider it measures across a wide range, including dry values.

## FEATURES

- Easy to use
- Six-point factory calibration, no recalibration necessary
- Tough, long-lasting body
- Low salt sensitivity
- Excellent range ( -9 kPa all the way to air dry [-100,000 kPa])
- On-board temperature measurement
- SDI-12 compatible

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## SPECIFICATIONS

### WATER POTENTIAL

**Range:** -9 to -2,000 kPa (1.96 to 4.31 pF)

**Resolution:** 0.1 kPa

**Accuracy:**  $\pm(10\%$  of reading + 2 kPa) from -100 to -9 kPa

**DIELECTRIC MEASUREMENT FREQUENCY:** 70 MHz

### TEMPERATURE

**Range:** -40 to +60 °C

**Resolution:** 0.1 °C

**Accuracy:**  $\pm 1$  °C

**OUTPUT:** RS-232 (TTL) with 3.6-V or SDI-12 protocol

**OPERATING TEMPERATURE:** Minimum: -40 °C Maximum: +60 °C

**DATALOGGER COMPATIBILITY:** METER ZL6, EM60, and Em50 data loggers or any system capable of 3.6- to 15-VDC power and serial or SDI-12 communication

**DIMENSIONS:** Length: 9.6 cm (3.8 in) Width: 3.5 cm (1.4 in) Height: 1.5 cm (0.6 in)

**CABLE LENGTH:** 5m standard, 75m maximum

**CONNECTOR TYPE:** 3.5-mm stereo plug connector or stripped and tinned wires

**COMPLIANCE:** Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010 (CE Mark)