



FACT SHEET

Blueline TDR Soil Moisture Sensors

The Blueline TDR soil moisture sensors are used when you need high precision soil moisture measurement.

Fast and accurate soil moisture measurements

Advantages

- Very small portable device, not much larger than a calculator.
- Immediate soil moisture reading as percent by volume.
- Simultaneous TDR level can correlate with soil conductivity.
- Rechargeable batteries allow up to 300 measurements on one charge.
- Different probe lengths available.
- Can be used with tube probe as possible replacement for neutron probe.
- TRIME probes can be networked for automated measurements.
- Excellent value for money

Historically this technology has been relatively expensive and, as a consequence, under used in the field. This new system is much more accessible, powerful and accurate than devices based on capacitance or frequency domain electronics.

Specifications

Power supply:	7V to 24V-DC
Power consumption:	1mA @ 12V/DC Standby (only in mode B) 8mA @ 12V/DC Idle-Mode 100mA @ 12V/DC during 2 to 3sec. of measuring
Moisture measuring range:	0 to 100% volumetric water content
Conductivity range:	0 to 6dS/m 6 to 12dS/m 12..50dS/m
Moisture range:	0 to 40%: $\pm 1\%$ $\pm 2\%$
Moisture range:	40 to 70%: $\pm 2\%$ $\pm 3\%$
Repeating accuracy:	$\pm 0.2\%$ $\pm 0.3\%$
Soil temperature measuring range:	-15 °C...50 °C
Soil temperature measuring accuracy:	$\pm 0,2^{\circ}\text{C}$
Sample volume:	1,25L 160x100mm diameter
Temperature range electronics:	-15 °C to 50 °C (extended range on request)
Temperature caused drift electronics:	max. $\pm 0.2\%$
Calibration data:	freely configurable
Probe body:	Waterproof sealed PVC (IP68) pico64 Size/weight: 155 x Ø63mm
Rod length:	standard: 160mm; optional 300, 200, or 100mm