

## Pico 64



**Pico 64** a highly sophisticated TDR probe for onsite monitoring of soil moisture in top layers.

### Fast and accurate moisture measurements in soil, sand & gravel

#### Advantages

- Very accurate TDR technology
- Integrated soil temperature sensor
- Interchangeable rods
- An ideal probe for maximum accuracy in materials with bulk electrical conductivity of up to 12dS/m.
- Large measuring volume > 1250ml
- A good probe solution for heterogeneous and stony soils
- Small measuring volume permits high spatial resolution
- Burying capability for both horizontal and vertical orientation
- Measures direct 0...100% vol. soil moisture content
- Measures soil electrical conductivity.

#### Specifications

Power supply:	7V..24V-DC
Power consumption:	100mA @ 12V/DC during 2..3sec. of measuring
Moisture measuring range:	0..100% volumetric water content
Conductivity range:	0..6dS/m    6..12dS/m    12..50dS/m
Moisture range 0..40%:	±1%                    ±2%                    }
Moisture range 40..70%:	±2%                    ±3%                    } with material specific
Repeatability accuracy:	±0.2%                ±0.3%                } calibration
Temperature drift:	±0.3%
Soil temp measuring range:	-15°C...50°C
Soil temperature measuring accuracy:	±0,2°C
Measurement volume:	1,25L 160x100mm diameter
Operating Temperature:	-15°C...50°C (extended temperature range on request)
Calibration:	Standard calibration for most soils Customizable material specific calibration Storage of up to 15 user defined calibration curves Calibration of dielectric permittivity is possible
Probe body:	Waterproof sealed PVC (IP68)
Size:	155 x Ø63mm
Rod length:	Standard: 160mm
Rod diameter:	6mm
Interfaces:	IMP-BUS, RS485, Analogue output: 2x 0..1V, 0(4)..20mA, 0..100% vol. water content, -40..+70°C soil temperature.