Van Walt
Monitoring Your Needs

FACT SHEET

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 calibration
Repeatability accuracy:	±0.2%	±0.3%	}
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.		

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