

Soil moisture sensor



- ▶ TDR (Time Domain Reflectometry) technology
- ▶ Volumetric water content (%) and soil temperature measurements
- ▶ Very good accuracy: < 2%
- ▶ Half meter cubic volume for water content definition
- ▶ Buriable to any depth

DQA340 is the ideal solution for the measurement of volumetric moisture in soils and other porous materials. The sensor is based on TDR technology (Time Domain Reflectometry), ensuring good accuracy even in very wet soil, and without special calibration for mineral soils. Using its rods, the sensor can be inserted in the material for 11 cm or fully buried.

Technical Specifications

PN	DQA340	
Moisture	Principle	TDR (Time domain reflectometry)
	Measuring range	0÷100% volumetric water content
	Accuracy	0÷40%: ±2%, 40÷70%: ±3%
	Repeatability	±0,3%
	Salinity error	<3% for 0÷40%
	Sampled volume	0,25L ± 110x50 mm diameter
Temperature	Range	-15°C÷50°C
	Accuracy	± 0,5°C relative
General Information	Power supply	7÷24 Vdc
	Power consumption	Sleep: 5 mA, Measuring: 175 mA @ 7 Vdc
	Power-up time	3 s
	Output	2x0÷1 V
	Operating temperature	-15°C÷50°C
	IP protection	Waterproof sealed PVC
	Cable	L = 5 m
	Dimensions	Body: 155 x Ø32 mm. Rods: lenght: 110 mm
	Data logger compatibility	M-Log (ELO008), R-Log (ELR515.1), E-Log, A-Log (using ALIEM)

Accessories

	DQA340.2	Spare part electrode L=110 mm for DQA340
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