

Soil temperature

Technical features - MODELS



Soil temperature sensors

DLE041 is used for temperature measurement on soil surface or buried at the required depth. It is made of a tightly waterproof shank and it can be also used for water temperature measurements.

Order numb.

DLE041

<i>Principle</i>	Pt100 1/2 DIN B (Class AA)
<i>Measuring range</i>	-20÷70°C
<i>Accuracy</i>	0,15°C (0°C)
<i>Output</i>	Pt100 DIN-IEC 751 table (EN 60751)
<i>Cable</i>	L = 10 m
<i>Housing</i>	Stainless steel AISI 304
<i>Operative temperature</i>	-20÷70°C

Soil moisture and temperature sensor

Technical features - MODELS



Soil moisture and temperature sensor

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 soils, and without special calibration for mineral soils. Using its rods, the sensor can be inserted in the material for 11 cm. It measures both soil moisture (0-100% range) and temperature.

Order numb.

DQA340

Moisture	<i>Principle</i>	TDR (Time domain reflectometry)
	<i>Measuring range</i>	0÷100%
	<i>Resolution</i>	0,1%
	<i>Accuracy</i>	0÷40%: ± 1% 40÷70%: ± 2%
	<i>Salinity error</i>	<0,030 m³/m³
Temperature	<i>Principle</i>	Pt100 1/2 DIN B
	<i>Range</i>	-15°C÷50°C
	<i>Accuracy</i>	± 0,2°C
	<i>Resolution</i>	0,1°C
General information	<i>Power supply</i>	6÷24 Vdc
	<i>Power consumption</i>	Sleep: 5 mA, Measuring: 100 mA
	<i>Power-up time</i>	3 s.
	<i>Output</i>	2x0÷1 V
	<i>Operating temperature</i>	-15°C÷50°C
	<i>IP protection</i>	Waterproof sealed PVC
	<i>Cable</i>	L = 5 m
	<i>Dimensions</i>	Body: 155 x Ø32mm Rods: lenght: 110mm