Soil temperature sensor



- Buriable to any depth without creating air pockets that facilitate the entry of water from the cable insertion hole
- Water-proof sensor (IP67) even for water temperature measurements
- 4-wires Pt100 technology for a better accuracy even in case of long connection cable
- Made in AISI 304 stainless steel
- In-house ISO17025 calibration laboratory

DLE041A is used for temperature measurement on soil surface or buried in the soil at the required depth. It is made of a tightly waterproof shank, and it can be also used for water temperature measurements.
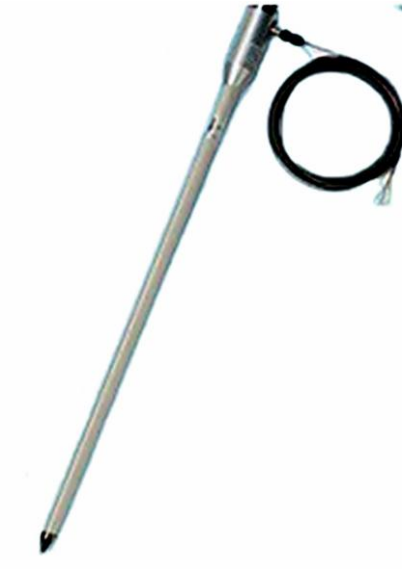
Technical Specifications

PN	DLE041A	
Use	Buriable inside the soil, or placeable on the surface. Usable even for measurements inside water	
Soil temperature	Principle	Pt100 Class A IEC60751 (DIN Class A)
	Measuring range	-50...70 °C
	Accuracy	±0.15 K @ 0 °C
	Output	Pt100 DIN-IEC 751 table (EN 60751)
	Cable	L=10 m
	Housing	Stainless steel AISI 304
	Operative temperature	-20...70 °C
	Protection rate	IP67
	Weight / Dimensions	0.5 kg / 250 mm Ø 6 mm
	Data logger compatibility	E-Log, Alpha-Log

Accessori

	SVICA0003	ISO9001 type calibration certificate (Temperature)
	SVACA0006	ISO17025-ACCREDIA type calibration certificate (Temperature)

Soil thermal profile sensor



- Allows the thermal soil profile to be obtained from 5 cm above the surface, up to 1 m deep in the soil
- Can be positioned in the ground by keeping the first sensor 5 cm above the surface without creating air pockets that facilitate water ingress through the cable insertion hole
- IP68 degree of protection
- ISO17025 accredited in-house laboratory for temperature measurements

PRMPA1204 is used to measure the soil temperature profile from the surface down to 1 m depth. The sensor returns the temperature curve with the depth at 7 measuring points It consists of a fiberglass tube and a waterproof stainless steel tip.

Technical Specifications

PN	PRMPA1204	
Use	Insert into the soil, keeping the first sensor 5 cm from the surface.	
Soil temperature	Principle	Pt100 Class A IEC60751 (DIN Class A)
	Measuring points	+5 cm, 0, -5 cm, -10 cm, -20 cm, -50 cm, -1 m
	Measuring range	-40...80 °C
	Resolution	0.01
	Accuracy	± 0.1 °C @ 0 °C
	Temperature shift	0.003 %/°C @ 20 °C
	Power	6...30 V DC
	Consumption	5 mA @ 12 V DC
	Output	RS485 Modbus RTU
	Cable	L=5 m
	Materials	Tube: fiberglass Tip: stainless steel Handle: anodized aluminum alloy with stainless steel top tip
	Operative temperature	Tube: –40...125 °C Handle: -40...80 °C
	Protection rate	IP68
	Dimensions	1252 mm Ø 20 mm
	Data logger compatibility	Alpha-Log

LSI LASTEM Srl
Via Ex SP. 161 Dosso, 9
20049 Settala (MI)
Italy

Tel. +39 02 954141
Email info@lsi-lastem.com
www.lsi-lastem.com