Surface temperature sensor (Pt100)



- Robust sensor for outdoor applications even in severe environmental conditions
- 4-wires Pt100 technology for long distance cable connections
- Ideal to be attached to the walls for wall surface temperature measurements in building assessments (U fac-tor applications)
- Pt100 1/3 DIN B Class AA sensitive element for outstanding accuracy (0.15 °C)
- Flat cable for cabling in narrow path (EST124)
- Accessories for 4...20 mA and RS485 signal output
- In-house ISO17025 accredited calibration laboratory

Plate sensor for surface temperature measurements. The compact dimensions allow installation even in small spaces. It can be easily fixed using silicon or adhesive band. Thermo-conductive paste can be used to increase the heat exchange.

Technical Specifications

PN	DLE124A	DLE124A.1	EST124
Connector	Free wires (4-wires)	Cable+male connector suitable for DWA5nn extension cables	Mini-DIN connector
Cable	L= 20 m - Ø 6 mm	L= 5 m - Ø 6 mm	L= 10 m flat
Cable type	Polyurethane external coating	Polyurethane external coating	Flat cable AWG28
Use	Indoor and outdoor	Indoor and outdoor	Indoor and outdoor
Data logger compatibility	E-Log Alpha-Log	Using DWA5nn extension cable: E-Log Alpha-Log	M-Log (ELO009)

Common Technical Specifications

Temperature	Principle	Pt100 DIN A (Class A EN60751)
	Type	4 wire RTD
	Measurement range	-50...80 °C
	Accuracy	0.15 °C (@ 0 °C)
	Output	Pt100 DIN-IEC 751 table (EN 60751)
	Resolution	0.01 °C (Alpha/M/E-Log)
	Response time (T90)	35 s

General Information	Dimension	30 x 20 mm. Thickness 2.5 mm
	Power consumption	None
	Operative temperature	-40...80 °C
	Protection grade	IP66
	Mounting	Thermo-conductive paste (not included)

Accessories

	SVICA0003	ISO9001 type calibration certificate (Surface temperature)
	SVACA0006	ACCREDIA type ISO17025 calibration certificate (Surface temperature)
	MM7500.R	Thermo-conductive paste for surface application



LSI LASTEM is an ISO17025 accredited laboratory for air temperature measurements. All sensors manufactured are tested inside our laboratory. LSI LASTEM provides Test report for any sensor supplied and on request, ISO17025 or ISO9001 calibration certificates (see Accessories list).



The EST124 sensor can be connected to the M-Log data logger (ELO009). One of the applications in which it is used, in combination with an ESR240 thermo-flowmeter sensor, is the measurement of walls thermal conductance (U-Factor).

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