Air temperature sensor (Pt100 output)



- Accurate (0.15 °C) temperature measurements using 1/3 DIN B Pt100 element
- Wide range of applications for air temperature measurements
- Converters for 4...20 mA and RS485 Modbus-RTU outputs
- In house ISO17025 accredited calibration laboratory

Pt100 air temperature sensor for indoor use and, when coupled with a radiant screen, suitable for outdoor weather applications. A 4-wire sensing element, Pt100 1/3 DIN B, guarantees excellent precision over extended temperature ranges and cable length. This sensor is ideal for virtually any type of environmental application.

Technical Specifications

PN	DMA033A	DMA033.1	EST033
Connector	Free-wires (4-wires)	Cable+male connector suitable for DWA5nn extension cables	Mini-DIN connector
Cable	L=5 m	L=5 m	L=2 m
Data logger compatibility	Alpha-Log E-Log	Using DWA5nn extension cable: Alpha-Log E-Log	M-Log

Common Technical Specifications

Temperature	Principle	Pt100 Class AA IEC60751 (DIN 1/3 class B)
	Type	4-wires RTD
	Measuring range	-50...70 °C
	Accuracy	±0.1 K @ 0 °C
	Output	Pt100 DIN-IEC 751 table (EN 60751)
	Resolution	0.01 °C (Alpha/E/M-Log)
	Response time (T90 air)	30 s without protective filter, 6 min with protective filter (air flow 0.2 m/s)

General Information	Protection grade	IP54
	Protective filter	Porous removable filter
	Power consumption	None
	Operative temperature	-40...80 °C
	Weight / Dimensions	0.44 kg / L=168 mm Ø 18 mm
	Installation	On BVA320-315 stands for portable applications on tripod

Accessories

	SVICA0003	Calibration report according to ISO 9001 (Temperature)
	SVACA0006	Calibration certificate according to ISO/IEC 17025 (Temperature)
	**BVA320**	Arm for fixing sensors on BVA304 tripod or wall
	**BVA315**	Arm for fixing sensors on BVA304 tripod
	**DEA420.1**	Converter: Output: 4...20 mA. Power supply: 10...30 V AC/DC More information on MW9008 catalogue
	MDMMA1010.1	Same feature as DEA420.1 Output: RS485 Modbus-RTU



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

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