Air temperature sensor (Pt100 output)



- Accurate Temperature measurements (0.1 °C)
- 4-wires technology for long distance sensor cable
- Radiant screen units available for outdoor measurement in direct sunlight and in meteorological applications
- Forced ventilation radiant screen availability
- Converters for 4...20 mA and RS485 Modbus-RTU outputs
- In house ISO17025 accredited calibration laboratory

Pt100 Air temperature sensor for indoor use and, coupled with a radiant screen, for meteorological applications. A 4-wire, Pt100 1/3 DIN B sensing element guarantees very good accuracy over an extended temperature range. This sensor is ideal for virtually any kind of environmental application.

Technical Specifications

PN	DMA033A	DMA033.1	EST033
Connector	Free wires (4-wire)	Male connector for DWA5nn 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	RTD 4 wires
	Measuring range	-50...70°C
	Accuracy	±0.1 K @ 0 °C
	Output	Pt100 DIN-IEC 751 table (EN 60751)
	Response time (T90 air)	30 s without protective filter, 6 min with protective filter

General Information	Protection type	IP54 (IP65 when radiant screen is used)
	Protective filter for sensitive element	Removable porous filter
	Power consumption	None
	Operative temperature	-40...80 °C
	Weight / Dimensions	0.44 kg / L=168 mm, Ø 18 mm
	Input type on A/E/M-Log	Analog

Accessories

	**DYA230**	N.7 Luran made plates natural ventilation radiant screen. Complete with arm. Black paint on the bottom side to increase natural air circulation inside the screen. DYA049 collar required to fix it on the lateral side of Ø 45...65 mm poles. Dimensions: H.156 mm. Diameter 124 mm. Weight: 0.67 kg
	**DYA233**	N.7 Luran made plates natural ventilation radiant screen for DY-A046 arm. Complete with arm. Black paint on the bottom side to increase natural air circulation inside the screen. Dimensions: H.156 mm. Diameter 124 mm. Weight: 0.67 kg
	**DYA231**	N.7 Luran made plates radiant screen for forced ventilation. 12 V DC power supply. Complete with arm. Air speed inside the screen. DYA049 collar required to fix it on the lateral side of Ø 45...65 mm poles. • Weight: 1 kg • Operating range: -20...80 °C
	DYA049	Mast-mounting device for Ø 45-65 mm pipe
	SVICA0003	ISO9001 type calibration certificate
	SVACA0006	ISO17025-ACCREDIA type calibration certificate



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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