

Wet natural ventilation temperature sensor (Pt100 output)



- Wet temperature measurement with natural ventilation as required for the calculation of the WBGT index (ISO 7243) in fixed and/or outdoor installations
- Designed as described in the ISO7726 standard for the "Wet Bulb Temperature"
- Two different measures water tanks for more than 30 days water autonomy: 50 cl (DMA121A) or 100 cl (DMA122)
- Well protected by the solar radiation
- In-house ISO17025 calibration laboratory
- Accessories for 4...20 mA and RS485 outputs

Thermometric probe with wet bulb and natural ventilation according to ISO7726 standard. The PT100 element is closed inside a wet cotton sock from a water tank. The water tank has a high reflection factor to avoid water temperature increasing due to radiant sources. This sensor is needed for WBGT (ISO7243) heat stress index assessment.

Technical Specifications

PN	DMA121A—DMA122	
Wet temperature	Principle	Pt100 DIN-A (Class A EN60751)
	Туре	RTD 4 wires
	Measuring range	080°C
	Accuracy	0.15°C (@0°C)
	Output	Pt100 DIN-IEC 751 table (EN 60751)
	Resolution	0.01°C
	Response time (T90 Air)	10 min. (air flow 0,2 m/s)
General Information	Standard	ISO7726
	Protection	IP66
	Power consumption	None
	Operative temperature	080°C
	Cable	L=5 m
	Mounting	On DYA049
	Water tank capacity	50 cl (DMA121A)100 cl (DMA122)
	Water refill	Every 30 days (25°C, 60% RH)
	Data logger compatibility	M-Log (ELO008) R-Log (ELR515) E-Log, A-Log



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Accessories

	DYA032.1	Arm for fixing DMA121A and DMA122 sensors on DYA049 collar
	DYA049	Mast-mounting collar for Ø 4565 mm pipe
	SVICA0103	ISO9001 type calibration certificate
	SVACA0105	ISO17025-ACCREDIA type calibration certificate
	DEA420.1	Converter: Output: 420 mA. Power supply: 1030 Vac/dc More information on <i>MW9008-ENG-04-Sensors-conditioning</i> Catalogue
	MDMMA1010.1	Same feature as DEA420.1: Output: RS485 Modbus-RTU



► LSI LASTEM is an ISO17025 accreditated 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).



Outdoor measurement of the wet temperature finds its most typical application in the calculation of the WBGT index (ISO 7243) when continuous or outdoor monitoring is required. In these cases, small sensors with little water capacity and inadequate solar shields are not suitable. The DMA121A and DMA122 sensors are the "meteorological" solution for this measurement.

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