

The standard globe thermometer consists of a black-painted copper sphere with a diameter of 150 mm and a thickness of 0,4 mm. It contains a thermometer with its bulb at the center of the sphere. This sensor is described in the ISO7726 standard. Main scope of the radiant temperature measurement in meteorological applications is the possibility of estimate the Mean Radiant Temperature (Tmrt) which is one of the most important meteorological parameters governing human energy balance and the thermal comfort of man in micrometeorological measurements.

Order numb.	DMA131	
Temperature	Sensitive element	Pt100 DIN-A (Class A EN60751)
	Туре	RTD 4 wires
	Range	-50÷70°C
	Accuracy	0,15°C (@0°C)
	Output	Pt100 DIN-IEC 751 table (EN 60751)
	Response time	20 min
	Operative temperature	-40÷80°C
	Material	Copper
	Cable	L=5 m
	Power consumption	None
	Design	ISO7726
	Protection	IP66
	Data logger compatibility	M-Log (ELO008) R-Log (ELR515) E-Log A-Log

Technical Specifications



Accessories

	DYA032	Arm for fixing DMA131 sensor on DYA049 collar
	DYA049	Mast-mounting collar for Ø 45-65 mm pole
	SVICA0103	Calibration certificate ISO9001 type (Radiant temperature)
	SVACA0105	Calibration certificate ISO17025-ACCREDIA type (Radiant tempera- ture)
20200 · ·	DEA420.1	Converter: Output: 4 ÷ 20 mA. Power supply: 10÷30 Vac/dc More information on MW9008 catalogue
	MDMMA1010.1	Same feature as DEA420.1: Output: RS485 Modbus-RTU



LSI LASTEM is an ISO17025 accreditaded 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).



• Measurement of black globe temperature in outdoor applications finds its most typical application in the definition of heat stress in public places, in order to warn about potentially dangerous situations for health or for research purposes.

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