WET BULB TEMPERATURE WITH NATURAL VENTILATION (Tnw)

Wet bulb natural ventilated temperature sensor

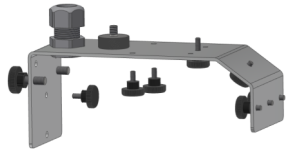
- Wet bulb temperature measurement with natural ventilation as required for the calculation of the WBGT index (ISO 7243) in portable and/or indoor installations
- Designed as described in the ISO7726 standard for the “Wet Bulb Temperature”
- Well protected by the solar radiation
- In-house ISO17025 calibration laboratory

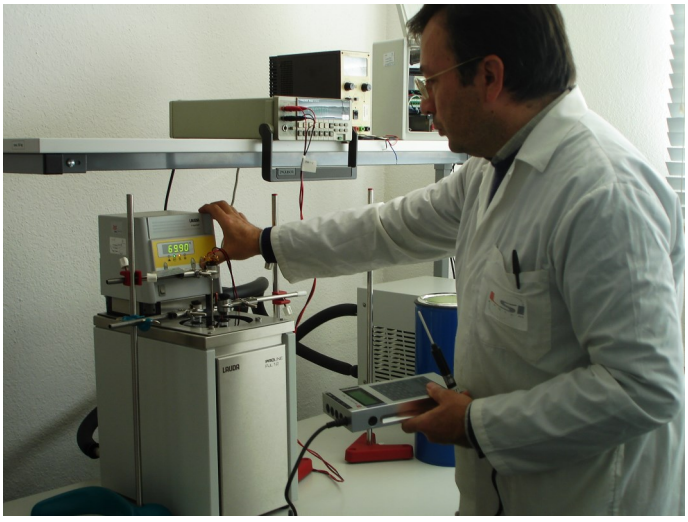
Thermometric probe with wet bulb and natural ventilation developed according to ISO7726 standard.
The Pt100 element is closed inside a wet cotton sock from a water tank. The water tank has a high reflection factor in order to avoid water temperature increase due to radiant sources. This sensor is needed for WBGT (ISO7243) heat stress index measurement.

Technical Specifications

PN	ESU121	
Wet bulb temperature	Principle	Pt100 Class A IEC60751 (DIN Class A)
	Measuring range	-30...70 °C
	Accuracy	±0,15 K @ 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 type	IP54
	Power consumption	none
	Operative temperature	0...80 °C
	Cable	L=1 m
	Connector	Min-din
	Derived quantities obtained	• WBGT Index* (ISO7243) * required additional black globe temperature (Tg) sensor
	Mounting	On BVA320-315 stands

Accessories

	SVICA0103	Calibration certificate. ISO9001 type (Wet Temperature)
	SVACA0105	Calibration certificate. ISO17025-ACCREDIA type (Wet temperature)
	MM3101.R	Spare cotton sock, diameter 3 mm (by meter)
	MM3103.R	Spare cotton sock, diameter 8 mm (by meter)
	**BVA320**	Arm for fixing sensors on BVA304 tripod or wall
	**BVA315**	Arm for fixing sensors on BVA304 tripod



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).

LSI LASTEM developed a high-end instrument range to assess thermal stress (heat stress and cold stress) and comfort. Wet bulb temperature (Tnw) is one important measurement (together with Globe temperature and Air temperature) required by the calculation of the WBGT Wet Bulb Globe Temperature heat index under the ISO7243 standard.

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