

825 BLACK GLOBE TEMPERATURE SENSOR



Ensuring a safe and comfortable environment by accurately measuring thermal radiation

The Black Globe Temperature Sensor is a highly precise measuring device used to determine radiant temperature in various environments. Based on the proven black globe principle, it enables reliable assessment of thermal load. Inside the sturdy copper black globe with a diameter of 7.5 cm, a PT100 sensor is positioned centrally to provide accurate measurements. The device has been specifically designed for use under a wide range of conditions and is ideally suited for evaluating thermal comfort in indoor and outdoor settings—such as in workplace safety, sports events, as well as industrial and construction environments.

- Precise measurement of thermal radiation for accurate heat assessment
- Support for WBGT index calculation to monitor heat stress
- Versatile use in workplace safety, sports, and industry

APPLICATIONS

- Workplace protection during high temperatures
- Heat stress monitoring
- Prevention of heatstroke during sporting events
- Monitoring of climatic conditions in greenhouses and agricultural facilities
- Weather forecasting and climate research

Professional Line	825
Id-No.	00.08250.000000 (incl. mounting arm ID 32.14627.020000 and accessory)
Measuring range	-40...+120 °C
Accuracy	±0.1 °C at 0 °C
Operating conditions	-60...+150 °C
Measuring elements	Pt100, 1/3 DIN (DIN EN 60751)
Dimensions	Globe diameter: 75 mm; shaft length: 105 mm; shaft diameter: 8 mm
Protection class	IP67
Weight	Black Globe Temperature Sensor: 0.4 kg Mounting arm: 2 kg
Material	Material of the globe: copper; finished with matte black lacquer
Cable	4- wire, shielded; length: 5 m

As of: 20.05.2025