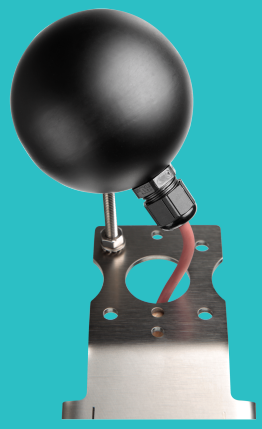
PRODUCT OVERVIEW

825 Black globe temperature sensor

POSSIBLE APPLICATIONS

- Occupational safety at high temperatures
- Heat stress monitoring
- Prevention of heatstroke at sporting events
- Monitoring of climate conditions in greenhouses and agricultural facilities
- Weather forecasting and climate research



For a safe and comfortable environment through precise measurement of heat radiation

The black globe temperature sensor is a high-precision measuring device for determining radiant temperature in various environments. Based on the proven black globe principle, it enables a reliable assessment of thermal stress. A PT100 sensor is integrated at the center of the robust copper black globe, which has a diameter of 7.5 cm, providing precise data. The device was specifically developed for use under a wide variety of conditions and is ideal for determining the thermal comfort of people in indoor and outdoor areas—for example, in occupational safety, at sporting events, and in industrial and construction site environments.

- Precise heat radiation measurement for accurate heat assessment
- WBGT index support for heat stress control
- Versatile use in occupational safety, sports, and industry

PRODUCT OVERVIEW

825 Black globe temperature sensor

Professional Line	825
Ident-No.	00.08250.000000 (Includes mounting arm ID 33.08250.020001 and accessories)
Measuring ranges	-40...+120 °C
measurement 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: 0.4 kg
Material	Globe material: copper; painted matte black
Cable	4-wire, shielded; length: 5 m

As of November 15, 2026