

# 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
<b>Ident-No.</b>	00.08250.000000 (Includes mounting arm ID 32.14627.020000 and accessories)
<b>Measuring ranges</b>	-40...+120 °C
<b>measurement accuracy</b>	±0.1 °C at 0 °C
<b>Operating conditions</b>	-60...+150 °C
<b>Measuring elements</b>	Pt100, 1/3 DIN (DIN EN 60751)
<b>Dimensions</b>	Ball diameter: 75 mm; shaft length: 105 mm; shaft diameter: 8 mm
<b>Protection class</b>	IP67
<b>Weight</b>	Black ball temperature sensor: 0.4 kg Mounting arm: 2 kg
<b>Material</b>	Globe material: copper; painted matte black
<b>Cable</b>	4-wire, shielded; length: 5 m

As of March 31, 2026