

μSMART Black Globe Temperature Sensor

The **μSMART** black globe temperature sensor is designed to measure the effects of radiant and convective heat transfer on humans & animals. The temperature sensor is enclosed in a 150mm diameter black copper sphere.

The sensor **Monibus** interface allows the user to modify the sensor operation through the built-in sensor menus. The sensor incorporates a microprocessor to provide accurate, repeatable readings and to allow optional analogue and control outputs.

The robust mechanical design ensures a long operational life.

- Mechanical**
- Copper globe
 - Stainless Steel body
 - High durability cable

Specifications

Range: -40 ... 60 °C

Accuracy: ± 0.1°C –20 ... 60°C ± 0.2°C overall

Operational: -20°C to +60°C 0% to 100%RH

- Output options:**
- **Monibus** serial data ASCII format
 - Voltage 0-1, 0-2.5 volts
 - 4-20mA (requires >12Vdc supply)
 - Frequency TTL pulse 2-10 Hz

Power Supply: 6-28 Vdc unregulated

Supply current: 1.2 mA active
0.5 mA economy mode

Sensor weight: 450 grams

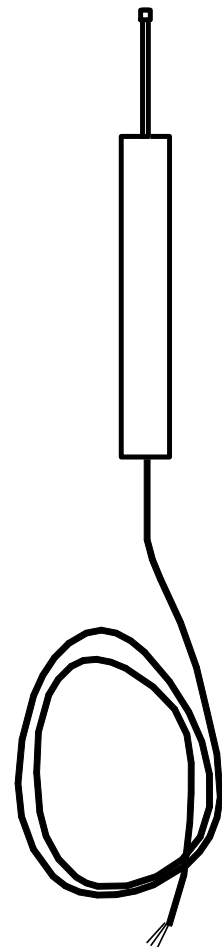
Dimensions: Overall height – 230 mm x 150 mm Ø

Mounting: 25 mm Ø

dwg no: MSM-06-0038

Cable Details: Standard product has 800 mm of cable – other cable lengths may be ordered

Warranty: **12 months** – full details can be found in the Monitor Sensors standard warranty document
http://www.monitorsensors.com/docs/std_warranty.pdf



Order codes:

TB1	standard sensor	TB1-C	Hi/Low control
TB1-V1	0...1 volt output	TB1-CV1	Hi/Low control + 0...1 volt output
TB1-V2	0...2.5 volt output	TB1-CV2	Hi/Low control + 0...2.5 volt output
TB1-A4	4...20 mA output	TB1-CA4	Hi/Low control + 4...20 mA output
TB1-F	2 ... 10 Hz TTL		

info@monitorsensors.com
ph: 61-7-5428 5900
fx: 61-7-5495 2276
www.monitorsensors.com

Monitor Sensors
Unit 1, 42 Cessna Drive
Caboolture QLD 4500
AUSTRALIA