

## **μSMART Ambient Temperature Sensor**

The **μSMART** temperature sensor is designed to measure ambient temperatures. The sensor tip design ensures the accurate measurement of the media surrounding the tip.

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 outputs. The robust mechanical design ensures a long operational life.

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

**Specifications**

**Range:** -40 ... 100 °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:** 250 grams

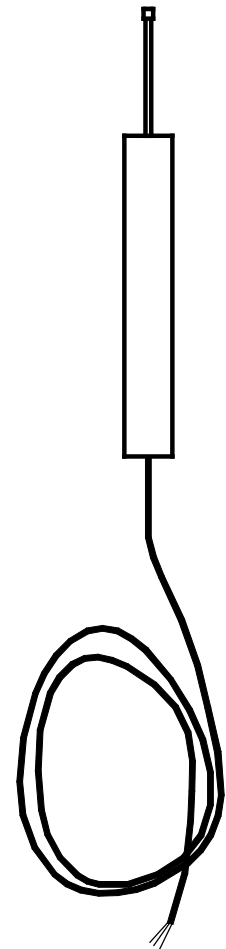
**Dimensions:** Overall height – 230 mm x 25 mm Ø

**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](http://www.monitorsensors.com/docs/std_warranty.pdf)



**Order codes:**

<b>TA1</b>	standard sensor	<b>TA1-C</b>	Hi/Low control
<b>TA1-V1</b>	0...1 volt output	<b>TA1-CV1</b>	Hi/Low control + 0...1 volt output
<b>TA1-V2</b>	0...2.5 volt output	<b>TA1-CV2</b>	Hi/Low control + 0...2.5 volt output
<b>TA1-A4</b>	4...20 mA output	<b>TA1-CA4</b>	Hi/Low control + 4...20 mA output
<b>TA1-F</b>	2 ... 10 Hz TTL		

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