

MONITOR SENSORS

TS

μSMART Soil Temperature Sensor

The ***μSMART*** temperature sensor is designed to measure the temperature of a surrounding bulk mass. The body design ensures accurate measurement of the media surrounding the sensor.

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
 - Fully sealed
 - 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

- 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

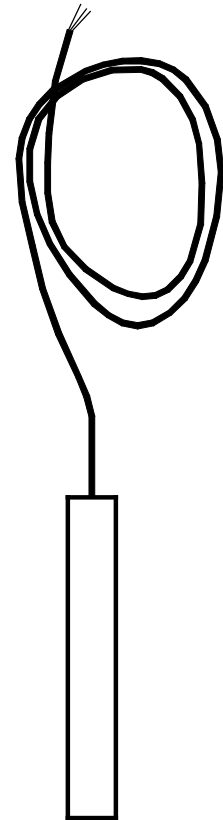
Dimensions: Overall height – 170 mm x 25 mm Ø

Mounting: 25 mm Ø

dwg no: MSM-06-0038

Cable Details: Standard product has 4m 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:

TS1	standard sensor	TS1-C	Hi/Low control
TS1-V1	0...1 volt output	TS1-CV1	Hi/Low control + 0...1 volt output
TS1-V2	0...2.5 volt output	TS1-CV2	Hi/Low control + 0...2.5 volt output
TS1-A4	4...20 mA output	TS1-CA4	Hi/Low control + 4...20 mA output
TS1-F	2 ... 10 Hz TTL		

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