

MONITOR SENSORS

SR

μSMART Solar Radiation Sensor

The ***μSMART*** solar radiation sensor is designed to measure global solar radiation. The sensor has a cosine correction filter that normalises the sensor measurement as the sun moves across the sky.

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**
- Powder coated aluminium body
 - High durability cable
 - Fully sealed

Specifications

Range: 0 ... 2000 w/m² 400 ... 950 nanometres

Accuracy: ± 5%

Cosine within 2% of theoretical curve

Correction:

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

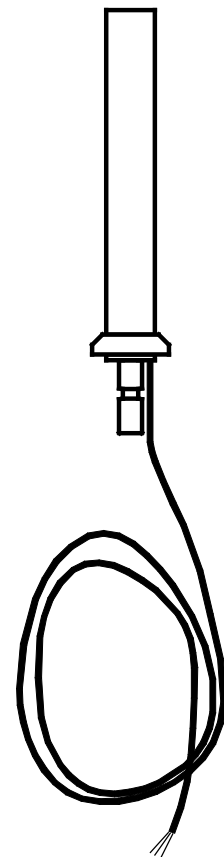
Sensor weight: 250 grams

Dimensions: Overall height – 170 mm x 25 mm Ø

Mounting: 12 mm Ø spigot
dwg no: MSM-06-0038

Cable Details: Standard product has 2100mm 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:

SR2	standard sensor	SR2-C	Hi/Low control
SR2-V1	0...1 volt output	SR2-CV1	Hi/Low control + 0...1 volt output
SR2-V2	0...2.5 volt output	SR2-CV2	Hi/Low control + 0...2.5 volt output
SR2-A4	4...20 mA output	SR2-CA4	Hi/Low control + 4...20 mA output
SR2-F	2...10 Hz output	SR2-9	sunshine hours on channel 2

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