

# MONITOR SENSORS

# UV

## ***μSMART*** UV 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:** W/m<sup>2</sup> or milli-moles/second

**Accuracy:** ± 5%

**Cosine Correction:** within 2% of theoretical curve

**Operational:** -40°C to +80°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](http://www.monitorsensors.com/docs/std_warranty.pdf)



**Order codes:**

<b>UVA</b>	UVA band	<b>UV6</b>	UVA+B+C band
<b>UVB</b>	UVB band	<b>-V1</b>	Suffix for 0...1 volt output
<b>UVC</b>	UVC band	<b>-V2</b>	Suffix for 0...2.5 volt output
<b>UV4</b>	UVA+B band	<b>-A4</b>	Suffix for 4...20 mA output
<b>UV5</b>	UVB+C band	<b>-F</b>	Suffix for 2...10 Hz output

info@monitorsensors.com

ph: 61-7-5428 5900

fx: 61-7-5495 2276

[www.monitorsensors.com](http://www.monitorsensors.com)

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