

Radiometer • UVB

MODEL 6.2

A Hand Held Digital UVB Radiometer with Integral Sensor



Applications

- Lamp UVB Intensity and Aging
- Reptile Lamps and UVB Measurement
- Acrylic Shield Transmission
- Percent UVB (Divide by Model 5.7 Reading)
- Eye Wear UVB Block Comparison

Features and Benefits

- Hand Held Integral Sensor
- Accurate Calibration
- NIST Traceable
- Compact and Durable
- LCD Readout

Sensor

Silicon Carbide (SiC) photodiode packaged in a hermetically sealed UV glass window cap. Interference filter blocks most UVA from response as shown on Spectral Sensitivity Graph.

Meter Operation

To operate your Solarmeter, aim the sensor window located on the top panel of the meter directly at a UV source. Press and hold the push-button switch on the face of the meter. For best results take note of the distance the reading was taken from the UV source in order to ensure repeatable results.

Battery operation voltage is viable from 9V down to 6.5V. Below 6.5V the numbers on the LCD display will begin to dim indicating the need for battery replacement. Under typical service load a standard 9V battery will last around 2 years.

Proper Usage of Solarmeter® Ultraviolet Radiometer

- Wear eye protection when checking UV lamps (Glasses that provide wrap around protection are ideal).
- Allow lamps to warm-up prior to taking readings (at least 5 minutes).

Lamp Aging

- When checking lamp aging, make sure to use the same location and distance to ensure accurate readings.
- Lamps should be replaced when output drops to about 70% of their original (new) readings.
- To determine percent UVB, divide Model 6.2 (UVB) reading by Model 5.7 (UVA + UVB) reading.

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General

- Do not subject the meter to extremes in temperature, humidity, shock or dust.
- Use a very soft cloth to clean the instrument. Keep sensor free of oil, dirt, etc.

Specifications

Irradiation Range	0-1999 $\mu\text{W}/\text{cm}^2$ UVB
Response	280-320nm
Resolution	1 $\mu\text{W}/\text{cm}^2$
Conversion Rate	3.0 Readings/Sec
Display	3.5 Digit LCD
Digit Size	0.4 inch High
Operation Temperature	32° F to 90° F
Operation Humidity	5% to 80% RH
Accuracy	$\pm 10\%$ REF. NIST
Dimensions	4.2L x 2.4W x 0.9D (in.)
Weight	4.5 OZ. (Including Battery)
Power Source	9-Volt DC Battery
Lens	UV Glass

Ordering Information

Model 6.2	UVB Radiometer
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SM/Sensors/Model 6.2 UVB_09/2015

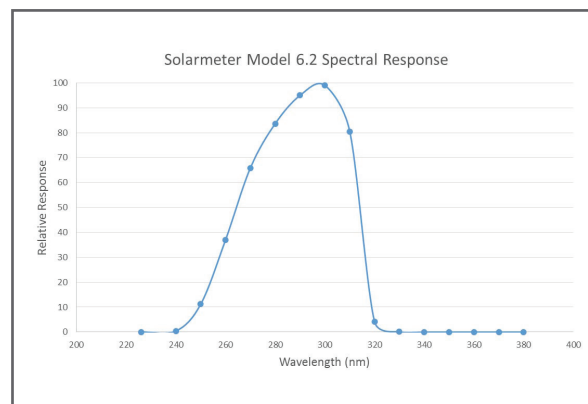


Fig. 1. Model 6.2 UVB