

SOLARMETER®

MODEL 6.0

UVB Meter • 0-19.99 mW/cm²

*Handheld Digital UVB Radiometer
with Integral Sensor*



SENSOR

Silicon Carbide (SiC) Photodiode packaged in hermetically sealed UV Glass window cap. Interference filter blocks most UVA from response as shown on the 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 approximately 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).
- 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.
- If you are unsure of original lamp values, replace two adjacent lamps identical new ones and compare.

APPLICATIONS

- Monitoring UV Lamp Intensity & Aging
- Monitoring UVB Phototherapy Lamp Intensity & Aging
- Testing Acrylic Shield Transmission
- Measuring Outdoor UVB
- Testing Eyewear UVB BLocking Capabilities
- Testing Window Tint / Film Transmission
- Choose Standard Model 6.0 For Outdoor / High Intensity Applications
- Choose Sensitive Model 6.2 For Indoor / Low Intensity Applications



ENVIRONMENT



METROLOGY



OUTDOOR
ACTIVITIES

FEATURES AND BENEFITS

- Compact, Handheld, and Durable
- Simple Single-Button Operation
- NIST Traceable Accuracy
- LCD Display
- Made In USA

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SolarMeter.com

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SOLARMETER®

ISO 9001
2015



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PROPER USAGE (CONTINUED)

- To determine percent UVB, divide Model 6.0 (UVB) reading by Model 5.0 (UVA + UVB) reading.
- Note: The black dot on the LCD is a decimal point.
- Use a dry, soft cloth to clean the instrument. Keep sensor free of oil, dirt, etc.
- Do not subject the meter to extremes in temperature, humidity, shock or dust.

ACRYLIC TESTING

- When comparing different types of lamps consider readings to be relative rather than absolute.
- For acrylic testing, take readings with and without acrylic at a fixed distance. Model 6.0 is best for acrylic tests.
- SPDs will read higher than ones peaking near 313 nm even if the total UVB output of both is the same.

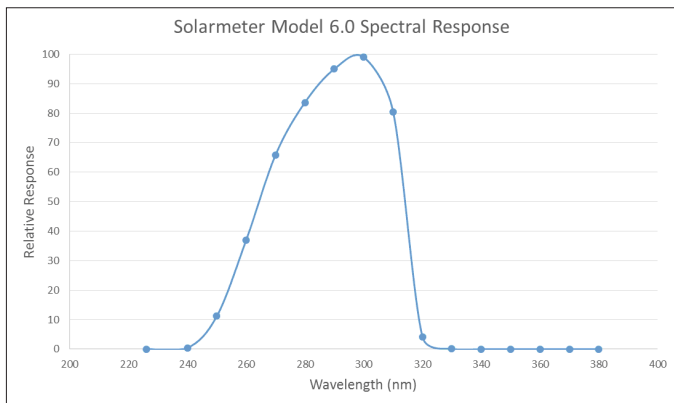


Fig. 1. Model 6.0 Spectral Response

SPECIFICATIONS

MODEL	6.0
IRRADIATION RANGE	0-19.99 mW/cm ² UVB
RESPONSE	250-320 nm UVB
RESOLUTION	0.1 UV Index
CONVERSION RATE	3.0 Readings / Sec
DISPLAY	3.5 Digit LCD
DIGIT SIZE	0.4" / 10.2 mm
OPERATIONAL TEMPERATURE	32°F to 100°F / 0°C to 37.8°C
OPERATIONAL HUMIDITY	5% to 80% RH
ACCURACY	±10% Ref. NIST
METER DIMENSIONS	4.2L x 2.4W x 0.9D in / 106.7L x 61W x 22.9D mm
WEIGHT	4.5 oz / 128g Including Battery
POWER SOURCE	9-Volt DC Battery
LENS	UV Glass
DIFFUSER	Teflon
AGENCY APPROVAL	CE Mark

REV D | MODEL 6.0 | Jan 2023
Specifications subject to change without notice.

SOLARMETER® by Solar Light Company, LLC is the industry standard for UV and visible light radiometers that measure both indoor and outdoor light sources. Our NIST Traceable meters are used to monitor lamp irradiance and aging for UV sterilization, reptile husbandry, indoor tanning, red/blue light phototherapy, UV curing and UV Index.