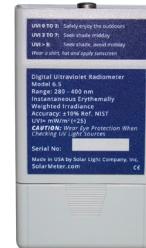




# MODEL 6.5

UV Index Meter • 0-199.9 UV Index

Handheld Digital UV Index Radiometer  
with Integral Sensor



## SENSOR

### For Reptile or Tanning UV Lamps and Sun

Silicon Carbide (SiC) Photodiode under hermetically sealed UV glass window cap, with Eeff (Erythemally Effective) filter and diffuser. Ideal for reptile and tanning lamp applications, as well as sunlight.

## APPLICATIONS

- Monitoring Reptile Lamp Intensity and Aging
- Monitoring UV Lamp Intensity and Aging
- Monitoring Instantaneous UV Index
- Measuring Solar Intensity In Terms Of UV Index
- UV Index Tracking Over Time



ENVIRONMENT



PUBLIC HEALTH



OUTDOOR  
ACTIVITIES

## FEATURES AND BENEFITS

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

## 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™ UV INDEX METER

To obtain instantaneous UV index, the following instructions will provide the most consistent and accurate results:

- Stand clear of buildings, trees, etc. to obtain a "full sky" field of view.
- Hold the meter vertically out in front of your body.
- Press and hold button on the front of the meter. This value represents the instantaneous UV index.
- The highest UVI values typically occur when the sky is a deep blue color, and sometimes when the sun is between scattered white "puffy" clouds. Take extra precaution under these conditions to reduce sunburn potential.

100 East Glenside Avenue  
Glenside, PA 19038 USA

SolarMeter.com

1.215.517.8700



ISO 9001  
2015



# MODEL 6.5

UV Index Meter • 0-199.9 UV Index

## PROPER USAGE (CONTINUED)

Note that various cloud and haze conditions reduce the UV index. When partly cloudy, take readings often, and average clear with cloudy readings to correlate with actual UV index. Take care in hazy or slightly overcast conditions, because although the direct UV reads less than when sky is clear, the diffuse UV can be higher as seen by pointing the meter in various directions.

- Do not subject the meter to extremes in temperature, humidity, shock or dust. If accidentally exposed to extreme humidity or damp conditions, abnormally high readings may occur. Allowing the meter to dry out naturally or placing it in a bag with silica gel will restore normal function.
- Use a dry, soft cloth to clean the instrument. Keep sensor free of oil, dirt, etc.

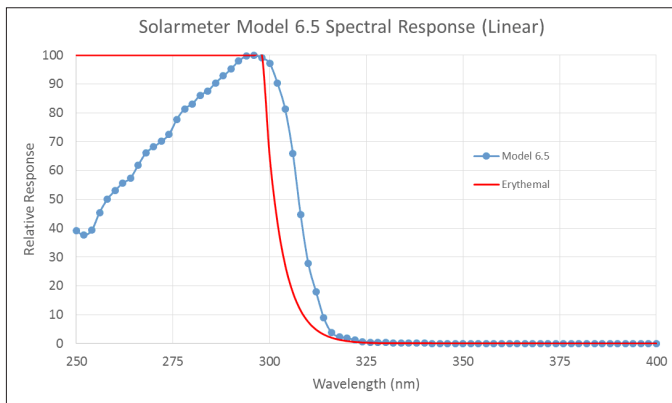


Fig. 1. Model 6.5 Spectral Response (Linear)

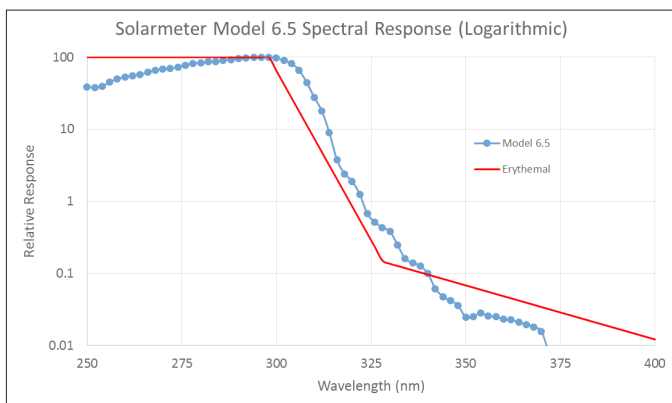


Fig. 2. Model 6.5 Spectral Response (Logarithmic)

## SPECIFICATIONS

<b>MODEL</b>	6.5
<b>IRRADIATION RANGE</b>	0-199.9 UV Index
<b>RESPONSE</b>	280-400 nm Diffey Erythmal Action Spectrum
<b>RESOLUTION</b>	0.1 UV Index
<b>CONVERSION RATE</b>	3.0 Readings / Sec
<b>DISPLAY</b>	3.5 Digit LCD
<b>DIGIT SIZE</b>	0.4" / 10.2 mm
<b>OPERATIONAL TEMPERATURE</b>	32°F to 100°F / 0°C to 37.8°C
<b>OPERATIONAL HUMIDITY</b>	5% to 80% RH
<b>ACCURACY</b>	±10% Ref. NIST
<b>METER DIMENSIONS</b>	4.2L x 2.4W x 0.9D in / 106.7L x 61W x 22.9D mm
<b>WEIGHT</b>	4.5 oz / 128g Including Battery
<b>POWER SOURCE</b>	9-Volt DC Battery
<b>LENS</b>	UV Glass
<b>DIFFUSER</b>	Teflon
<b>AGENCY APPROVAL</b>	CE Mark

REV C | MODEL 6.5 | Jun 2021  
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.

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