# Solarmeter Model 6.2

UVB Meter • 0-1999 µW/cm²


## Handheld Digital UVB Radiometer with Integral Sensor

## Applications

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

## Features and Benefits

- Monitoring Reptile Lamp Intensity and Aging (Peak sensitivity is 295nm, the point required to induce Vitamin D3 synthesis.)
- Monitoring UV Lamp Intensity & Aging
- Testing Acrylic Shield Transmission
- Testing Eyewear UV Block Capabilities
- Measuring Outdoor Shady Area UVB
- Testing Window Film / Tint Transmission
- Choose Sensitive Model 6.2 For Indoor / Low Intensity Applications
- Choose Standard Model 6.0 For Outdoor / High Intensity Applications

## 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 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 15 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 50% of their original (new) readings.
- To determine percent UVB, divide Model 6.2 (UVB) reading by Model 5.7 (UVA + UVB) reading.

SOLAR®
LIGHT

SOLARMETER® • UVMINDER®
MULTIPORT® • MICROTOPS®

100 East Glenside Avenue • Glenside, PA 19038 • USA • P 1.215.517.8700 • F 1.215.517.8747
www.solarmeter.com • info@solarmeter.com • www.youtube.com/user/SolarLightColnc

## General

- 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 very soft cloth to clean the instrument. Keep sensor free of oil, dirt, etc.

**Solar Light Company, Inc.** is recognized worldwide for over 50 years as America's premier manufacturer of precision ultraviolet light sources, solar simulators, and radiometers. Our standard line of UV, visible, and IR radiometers and light meters measure laboratory, industrial, environmental, and health related light levels with NIST traceable accuracy. Column ozone, aerosol, and water vapor thickness measurements, in addition to long-term global ultraviolet radiation studies all over the world are performed using our atmospheric line of instrumentation. Solar Light also provides NIST traceable spectroradiometric analyses, calibrations for light meters and light sources, OEM instrumentation and monitors, and accelerated ultraviolet radiation degradation testing of materials.

| Solarmeter Specifications | |
|---|---|
| Radiometer | |
| Model | 6.2 |
| Irradiation Range | 0-1999 µW/cm² UVB |
| Response | 280-322 nm UVB |
| Resolution | 1 µW/cm² |
| Conversion Rate | 3.0 Readings / Sec |
| Display | 3.5 Digit LCD |
| Digit Size | 0.4" / 10.2 mm |
| Operational Temperature | +32°-100°F / 0°-37.8°C |
| Operational Humidity | 5% to 80% RH |
| Accuracy | ±10% Ref. Nist |
| Dimensions | 4.2L x 2.4W x 0.9D in / 106.7L x 61W x 22.9D mm |
| Weight | 4.5 oz / 128 g Including Battery |
| Power Source | 9-Volt DC Battery |
| Lens | UV Glass |
| Diffuser | Teflon |
| Agency Approval | CE Mark |

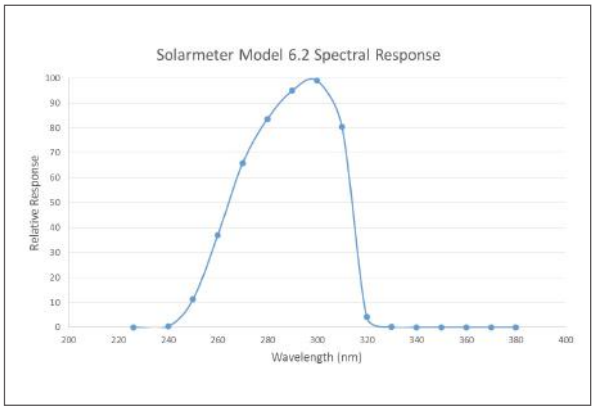


Fig. 1. Model 6.2 Spectral Response

SOLAR® LIGHT

SOLARMETER® • UVMINDER®
MULTIPORT® • MICROTOPS®

100 East Glenside Avenue • Glenside, PA 19038 • USA • P 1.215.517.8700 • F 1.215.517.8747
www.solarmeter.com • info@solarmeter.com • www.youtube.com/user/SolarLightColnc

Rev: sm/sensors/model6.2_10/2017