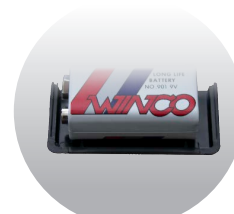


# Solarmeter® Model 6.2R

Reptile UVB Lamp Meter • 0-1999  $\mu\text{W}/\text{cm}^2$

Handheld Digital UVB Radiometer  
with Integral Sensor



## Features and Benefits

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

## Applications

- Model 6.2R Reptile UVB Lamp Meter is ideally suited to determine if UVB lamps are performing to manufacturer's specifications, gauge intensity, and measure aging over time

## 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)
- 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







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## Care and Maintenance

- 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.



SOLARMETER SPECIFICATIONS	
Model	6.2R
Irradiation Range	0-1999 [ $\mu\text{W}/\text{cm}^2$ ] UVB
Response	250-320nm UVB
Resolution	1 [ $\mu\text{W}/\text{cm}^2$ ]
Conversion Rate	3.0 Readings / Sec
Display	3.5 Digit LCD
Digit Size	0.4 (in) / 10.2 (mm) high
Operational Temperature	32°F to 90°F / 0°C to 37.8°C
Operational Humidity	5% to 80% RH
Accuracy	$\pm 10\%$ 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

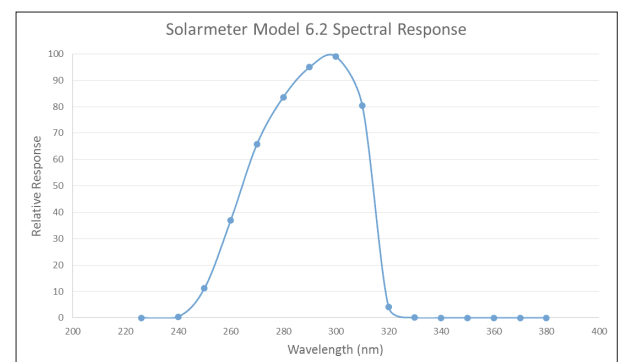


Fig. 1 Model 6.2 Spectral Response (Linear)

## FAQ

### Which Meter Do I Need For My Reptile – Model 6.5R Reptile UV Index Meter or the Model 6.2R Reptile UVB Lamp Meter?

Ideally, reptile keepers will want both meters. Because the Model 6.5R Reptile UV Index Meter's erythemally weighted action spectrum is extremely close to the action spectrum for vitamin D3 synthesis, it is the ideal tool to determine proper UV dose for your reptile, per the appropriate Ferguson Zone for the species. In fact, the 6.5R's readings can function as a proxy for the vitamin D3 producing ability of the habitat's light source. Meanwhile, the Model 6.2R Reptile UVB Lamp Meter determines if UVB lamps are performing to manufacturer's specifications, gauges intensity, and measures aging over time. So, in short, use the Model 6.5R to determine proper UV dose for the animal, and use the Model 6.2R to determine UVB lamp output.

