

Radiometer • UVA

MODEL 4.2

A Hand Held Digital UVA Radiometer with Integral Sensor



Applications

- Window Film Tests
- Low Level UV from Household Lamps
- Ground-level UV from Stadium Lighting
- Outdoor Shady Area Readings

Features and Benefits

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

Sensor

Semiconductor UV sensor consisting of a silicon photodiode and UV filter. The sensor is completely insensitive to visible light longer than 400nm and infrared radiation. Its spectral response covers only the UV region from 320-400nm.

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

- To measure home, business, school or car window UV transmission, take reading through window or film and compare to outdoor reading.
- For household lighting, including compact fluorescents, take reading near lamps and increase distance until reading falls below 1 $\mu\text{W}/\text{cm}^2$.
- For gym or stadium lighting, take readings at floor level. Ask to have UV shields installed if readings are too high.
- Do not subject the meter to extremes in temperature, humidity, shock or

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dust.

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

Specifications	
Irradiation Range	0-1999 $\mu\text{W}/\text{cm}^2$ UVA
Response	320-400nm
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	$\pm 10\%$ to NIST Ref. Meter
Dimensions	4.2L x 2.4W x 0.9D (in.)
Weight	4.5 OZ (Including Battery)
Power Source	9-Volt DC Battery
Ordering Information	
Model 4.2	UVA Radiometer

SM/Sensors/Model 4.2 UVA_10/2015

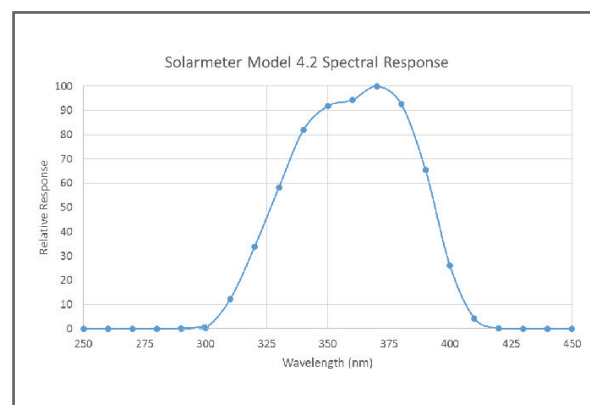


Fig. 1. Model 4.2 Spectral Response