

SOLARMETER 紫外線 C 強度計



特點

- 集成感測器
- 簡單好用
- 經久耐用
- 精確
- LCD 顯示幕

應用

- 紫外線 C 燈強度及老化程度測試
- 燈管 UVC 強度及老化程度
- 眼鏡紫外線塊比較
- 眼部紫外線防護比較
- 燈管 UVC 強度及老化程度
- 紫外線燈盒洩漏檢查

規格

紫外線強度範圍	0-1999 $\mu\text{W}/\text{cm}^2$ UVC
中心波段	254 \pm 8 nm
波段	246-262 nm
解像度	1 $\mu\text{W}/\text{cm}^2$
更新速度	3.0 Readings/Sec
顯示幕	3.5 Digit LCD
Digit Size	0.4 inch high
使用濕度	5% TO 90% RH
準確度	\pm 10% REF. NIST
尺寸 (in.)	4.2L x 2.4W x 0.9D (inches)
重量	4.5 OZ. (incl. batt.)
電源	9-Volt DC Battery
鏡頭	UV Glass
Diffuser	None
Detector	SiC/Shortpass I. F.
產地	美國

感測器/Detector

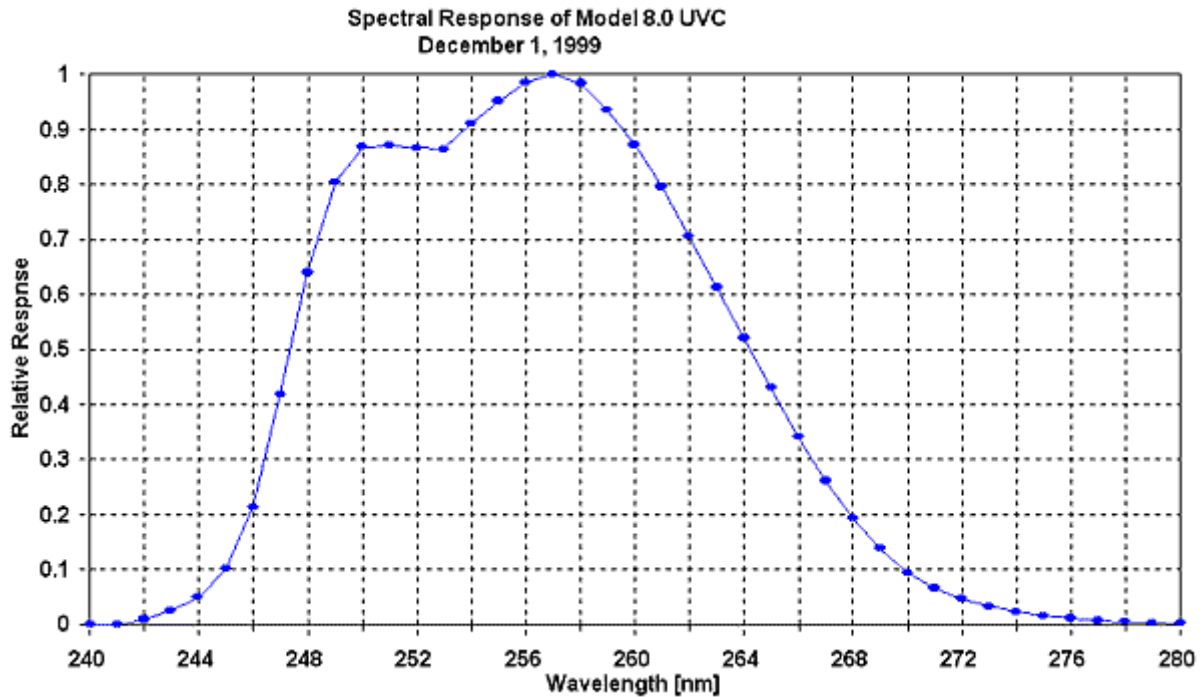
Silicon Carbide (SiC) Photodiode packaged in hermetically sealed UV glass window cap. Interference filter blocks UVA and UVB from response as show on Spectral Sensitivity Graph.

按住太陽輻射計正面的開關按鈕。把面板頂端的感測器部分直接對準紫外線光源。讀數就會顯示在 LCD，如果有必要可以讀數記錄下來。

操作時，電池電壓在 9V-6.5V 之間。電壓低於 6.5V 時，LCD 讀數將開始模糊，這時需要更換電池。在 "typical" 這檔時，電池可以用 2 年左右。

Solarmeter ⑧UV 輻射計進行燈管測試的正確用法

- 測量紫外線燈管時需對眼睛、臉部和手進行防護。
- 測量前燈管需照明 (至少 5 分鐘)。
- 當測量燈管老化程度時，燈管與紫外光計的距離需保持不變。
- 燈管的光輸出量下降到原來的 70% 左右時就需要更換燈管。
- 如果不確定燈管的原始讀數，可以用兩個同款的新燈管替換舊的，然後比較讀數。
- 不要將儀器存放於高溫，潮濕，或灰塵之處。
- 用乾淨的、柔軟的布擦拭儀器。保存時請遠離油膩和灰塵等。



Sensor/Detector

Silicon Carbide (SiC) Photodiode packaged in hermetically sealed UV glass window cap.
Interference filter blocks UVA and UVB from response as show on Spectral Sensitivity Graph.

Operation

Press and hold push-button switch on face of unit. Aim sensor window in top panel of meter directly at UV source. Note reading on LCD and record if desired.

Battery operation voltage is 9V down to 6.5V. Below 6.5V the LCD numbers will begin to dim, indicating the need for battery replacement. Under "typical" service load, the battery should last about 2 years.

Proper Usage of Solarmeter® Ultraviolet Radiometer for Lamp Tests

- Wear UV-block eye, face, hand protection when checking UVC lamps.
- Allow lamps to warm-up prior to taking readings (at least 5 min).
- Hold sensor close to lamp to measure individual lamp UVC intensity. Hold sensor at distance from lamp(s) for effective sterilization intensity.
- When checking aging of lamps, keep measuring distance and locations constant.
- Lamps should be replaced when output drops to about 70% of their original (new) readings.
- If unsure of what original new values were, replace a lamp with new one and compare old one.
- Do not subject the meter to extremes in temperature, humidity, shock or dust.

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

Note: Sensor is completely solar blind to UVB, UVA, visible, and IR. Meter will read 000 pointing to non-UVC sources, including sun, floodlamps, etc.

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