



センサー

センサーは、炭化ケイ素(SiC)フォトダイオードとUVフィルターで構成されています。UVフィルターは、スペクトル感度グラフに示されているように、ほとんどの非紅斑(非D3)紫外線の応答をブロックします。

METER OPERATION

ソーラーメーターを操作するには、メーターの上部パネルにあるセンサーウィンドウを直接UV光源に向けます。メーターの前面にある押しボタンスイッチを押します。測定値は、10%の体表面でIU/分D3を表示します。

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™ D3 RADIOMETER

- Wear eye protection when checking UV lamps. Glasses that provide wrap around protection are ideal.
- Allow lights to warm-up prior to taking readings (at least 5 min).
- Keep track of exactly how long you are exposed to a UV source to properly calculate total vitamin D produced.
- 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.

用途

- IU/分でのビタミンDの体内生産のモニタリング
- UVランプの強度と経年劣化の監視
- ビタミンDの体内生産に関する情報源の比較
- ビタミンD体内生産の観点からの日射強度の測定



環境



公衆衛生



野外活動

特徴と利点

- コンパクトでハンディ型、長い耐久性
- シンプルなシングルボタン操作
- NISTトレーサブル精度
- LCD 表示
- アメリカ製

MODEL 6.4

Vitamin D3 Meter • 0-1999 IU/min

PROPER USAGE (CONTINUED)

- Please go to SolarMeter.com and choose the Solarmeter® Model 6.4 to receive a downloadable Vitamin D calculation utility to aid in your use of the meter.

- Some helpful formula embedded in the utility:
1000 IU = 1 MED (Minimal Erythema Dose) The minimum dose of radiation that produces a sunburn.

1 IU/min = 1/1000 MED/min (or 0.06 MED/hr, which = 1/16.67 MED/Hr)

1 MED/Hr = 2.33 UVI and 1 MED/Hr = 16.67 IU/min.

The conversion constant for IU/min to UVI is
16.67 / 2.33 = 7.1 UVI.

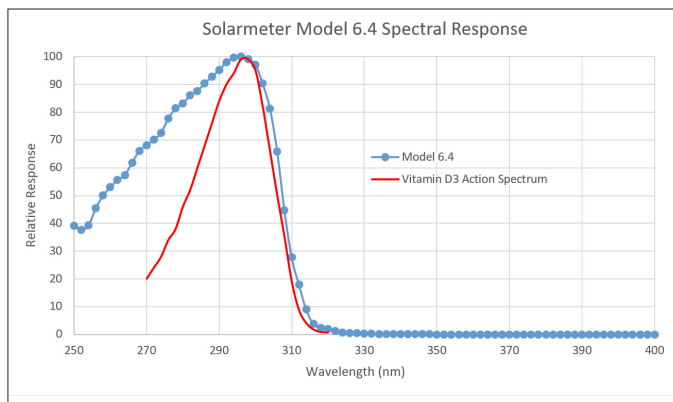


Fig. 1. Model 6.4 Spectral Response (Linear)

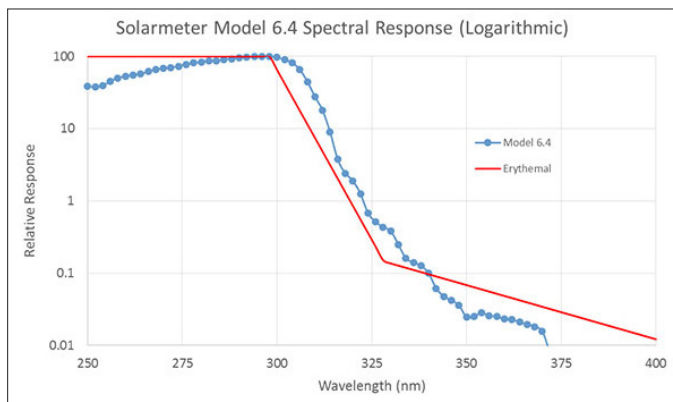


Fig. 2. Model 6.4 Spectral Response (Logarithmic)

SPECIFICATIONS

MODEL	6.4
IRRADIATION RANGE	0-1999 IU/min
RESPONSE	280-400 nm Diffey Erythema Action Spectrum
RESOLUTION	1 IU/min
CONVERSION RATE	3.0 Readings / Sec
DISPLAY	3.5 Digit LCD
DIGIT SIZE	0.4" / 10.2 mm
OPERATIONAL TEMPERATURE	32°F to 100°F / 0°C to 37.8°C
OPERATIONAL HUMIDITY	5% to 80% RH
ACCURACY	±10% Ref. NIST
METER DIMENSIONS	4.2L x 2.4W x 0.9D in / 106.7L x 61W x 22.9D mm
WEIGHT	4.5 oz / 128g Including Battery
POWER SOURCE	9-Volt DC Battery
LENS	UV Glass
DIFFUSER	Teflon
AGENCY APPROVAL	CE Mark

REV B | MODEL 6.4 | 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.