SPECIFICATIONS

Irrad. Range 0-199.9 mW/cm² Total UV
Response 285-390 nm (UVB through UVA)
Resolution 0.1 mW/cm²
Conv. Rate 3.0 Readings/Sec
Display 3.5 Digit LCD
Digit Size 0.4 inch high
Temp Coef. ±0.1 mW/cm²
Oper. Temp 320°F TO 1200°F
Oper. Humidity 5% TO 90% RH
Accuracy ±5% REF. NIST (NBS)
Dimensions (in.) 4.2 L x 2.4 W x 0.9 D
Weight 4.5 OZ. (Incl. battery)
Power Source 9-Volt DC Battery
Lens UVT Acrylic .030
Diffuser Virgin Teflon .005

SENSOR

Hamamatsu #G 3614 UV SENSOR/FILTER
The G3614 is a semiconductor UV sensor consisting of a GaAsP photodiode chip and a UV filter. The G3614 is completely insensitive to visible light longer than 400 nm and infrared radiation since its spectral response covers only the UV region from 260 to 400 nm. Applications of the G3614 include solar UV detection, as the spectral response is well matched to the solar UV spectrum.

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 operating range is 9.0 to 6.5 volts. Battery indicator “Batt” will come on below 6.5 volts, indicating need for replacement of battery. Always replace battery when indicator comes on in order to maintain meter accuracy.

PROPER USAGE OF Solarmeter® ULTRAVIOLET RADIOMETER FOR LAMP AGING TESTS

• Wear eye protection when checking UV lamps (e.g.: UV-block eyewear)

• Allow lamps to warm-up prior to taking readings (at least 5 mm).

• 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 two adjacent lamps with new ones and compare to old ones.

• When checking acrylic transmission, take reading through acrylic; then remove acrylic and hold meter sensor at approximately the same distance from lamp as the acrylic shield was located.

• Do not use meter to compare different type lamps, due to their different spectral power distributions. Although higher output lamps will read higher than low output lamps, the readings are relative rather than absolute.

• 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.

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