Radiometer • RED LIGHT
MODEL 9.6

A Hand Held Digital Red Light Radiometer with Integral Sensor

Applications
- Red LED, Fluorescent, and HID Lamp Intensity
- For LED, Fluorescent, and HP (HID) Lamps
- Collagen Stimulation Irradiance
- Wound Healing Irradiance
- Red Lamp Aging Tests
- Photosynthetic Action Spectrum Red Band

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

Sensor
GaAsP Photodiode packaged in hermetically sealed glass window cap. Filter used to narrow bandwidth as shown on Spectral Response Graph.

Meter Operation
To operate your Solarmeter, aim the sensor window located on the top panel of the meter directly at a light 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 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® Red Light Radiometer
- Wear tinted eye protection when checking intense light sources.
- Allow lights to warm-up prior to taking readings (at least 5 min).
- For individual light intensity, hold meter close to LED or lamp.
- For effective light intensity, hold meter at working distance from the light source.
- When checking aging of lights, keep measuring distance and locations constant.

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- Lights should be replaced when output drops to about 70% of their original (new) readings.
- If unsure of what new values were, replace an adjacent light with a new identical one and compare the two.
- Do not subject the meter to extremes in temperature, humidity, shock or dust.
- Use a dry, soft cloth to clean the intrument. Keep sensor free of oil, dirt, etc.

Specifications	
Irradiation Range	0-199.9 mW/cm^2 Red Light
Response	577-661 nm
Resolution	0.1 mW/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 90% RH
Accuracy	±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 9.6	Red Light Radiometer

SM/Sensors/Model 9.6 RL_09/2015

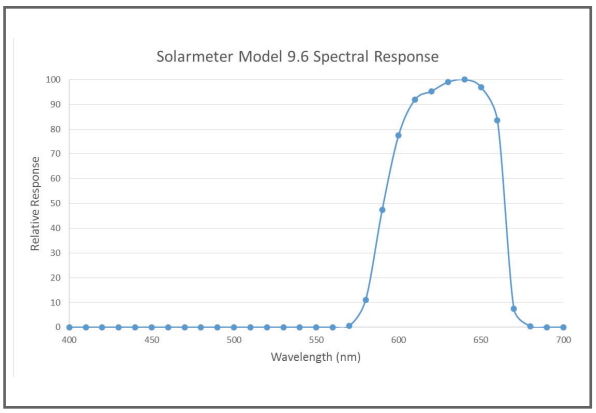

Fig. 1. Model 9.6 Spectral Response