# SOLAR® LIGHT

### Digital Sensors Laser Detector Sensor PMA2142

Measures Continuous Laser Power up to 40 Watts

Solar Light's **Model PMA2142 Digital Laser Sensor** is available in two full scale power levels of 10 watts (Model PMA2142-10) and 40 watts (Model PMA 2142-40.) PMA2142-10 has an active area of 3.14 cm<sup>2</sup>, and the PMA2142-40 has an active area of 4.91 cm<sup>2</sup>. Display resolution is 1mW for the 10 watt model and 10mW for the 40 watt model. Each of these sensors includes an adjustable instrument base for accurate, stable placement.



### **Applications**

- Low Power Lasers and LEDs
- Mid-power Lasers
- Laboratory Use
- Optical Power Meter

#### **Features and Benefits**

- Flat Spectral Response
- Response Time <1 Second
- NIST Traceable
- Uniform Active Area
- Dose Integration





## SOLAR<sup>®</sup> LIGHT

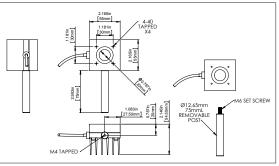
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SPECIFICATIONS	
Spectral Response	<b>ΡΜΑ2142-10:</b> 0.19-25 μm
	PMA2142-40: 0.25-11 µm
Range	PMA2142-10: 10W
	<b>PMA2142-40:</b> 40W
Display Resolution	PMA2142-10: 0.001W
	PMA2142-40: 0.01W
<b>Operating Environment</b>	Indoor
Cable Length	5ft. (1.5m) Straight Cable
<b>Dimensions and Weight</b>	*See Outline Drawings
REFERENCES	
Fraden J., "AIP Handbook of Modern Sensors Physics, Design and Applications"	

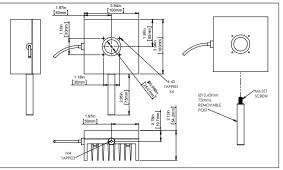
Part Number: 210021 Revision Level: B Specifications subject to change without notice.

#### Laser Detector Sensor PMA2142-10



Est. Weight: 7 oz. (200 g)

#### Laser Detector Sensor PMA2142-40



Est. Weight: 35 oz. (1 kg)



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Since 1967, Solar Light Company, LLC has been recognized worldwide as America's premier manufacturer of Precision Solar Simulators and Light Sources, Light Measurement Instrumentation, UV Transmittance Analyzers, Meteorological Instrumentation, and Digital and Analog Sensors. Our advanced line of UV, visible, and IR radiometers and light meters measure laboratory, industrial, environmental, and health related light levels with NIST traceable accuracy. Column ozone, aerosol, and water vapor thickness measurements, in addition to long-term global ultraviolet radiation studies all over the world are performed using our atmospheric line of instrumentation. Solar Light also provides NIST traceable spectroradiometric analyses, calibrations for light meters and light sources, accelerated ultraviolet radiation degradation testing of materials, and OEM instrumentation and monitors. Please visit our website for more details, specifications, and pictures!



**State Of The Art Solar Simulators** available in 150-1000+ watt UV or AM variations for a variety of applications including PV Cell Testing, Materials Testing, Pre-Irradiation for *In Vitro* Broad Spectrum Sunscreen Testing, SPF Testing, and much more.



**Multi-Functional Professional Grade Radiometers** available with and without data logging, and compatible with over 130 Solar Light PMA-Series Sensors to measure UV, Visible and IR wavelengths. Specialty Meters also available to measure UV Radiation, SUV/UVA, Scotopic/Photopic Spectra, and much more.



**Advanced NIST-Traceable Sensors** for accurate measurement of UVA, UVB, UVA+B, UVC, Visible, IR, Photostability, Temperature, and Custom Wavelength – well over 130 models in both digital and analog configurations, all compatible with our Radiometers.



**Ultraviolet Transmittance Analyzers** available as complete integrated turnkey systems to meet the latest ISO24443 requirements.



**Handheld Ozonometers and Sunphotometers** for fast and dependable Column Ozone, Aerosol, and Water Vapor Thickness measurements, in addition to long-term global ultraviolet radiation studies.

