



innovative power wizard™ power meters offer unbeatable convenience

accurate The measurement of laser power is quick and simple with our Power Wizard™ power meter. Synrad's

laser hand held Power Wizard™ is a low cost, lightweight alternative to bulky, two-piece thermopile power meters and probes, or traditional “meat thermometer” probes. Ideally suited for industrial, scientific, and medical applications, use it when setting up your system, and as a service tool to ensure maximum performance of your laser system at any time.

power

measurement

in a

compact Available in two versions, our PW-2 for power levels of 10mW to 2W, and the PW-250, for 1 to 250W, Synrad's Power Wizard™ measures output power from the ultraviolet to

package

the far infrared. This makes it the perfect tool for checking the performance of your excimer, argon, diode, YAG, and CO₂ lasers, to name just a few.

Automatic data hold and auto ranging make the Power Wizard™ easy to use. Simply insert the sensor into the laser beam and hold in place for a few seconds. The easy-to-read LCD screen will then display an accurate measurement of average laser power. To take another reading, simply push the reset button, and the Power Wizard™ is ready to go!

SYNRAD®
An Excel Technology Company

Power Wizard™

Power Meters

Specifications	PW-2	PW-250
Range (3 1/2 digits)	10-1999mW	1-250W
Resolution	1.0mW	0.1W
Wavelength range ¹	190nm-11µm	190nm-11µm
Individual calibrated wavelength ¹	514nm	10.6µm
Target absorption ¹ , 190nm-1.1µm & 9-11µm	0.96-0.99	0.96-0.99
Target absorption ¹ , 190nm-11µm	0.93-0.99	0.93-0.99
Accuracy	±5%	±5%
Target diameter (mm)	5.8	22
Settling time (seconds)	<4	<4
Max. allowable input power (single application, W)	4	300
Max. average power density ² (kW/cm ²)	20	20
Max. peak energy density ³ (J/cm ²)	1	1
Max. target temperature (°C)	180	180
Typical target temp. rise per measurement (°C/W)	30	0.4
Typical battery life	5 years	5 years
	25,000 readings	25,000 readings
Battery type	3xCR2025 lithium	3xCR2025 lithium
Auto shut-off time (seconds)	25	25
Data hold time (seconds)	15	15
Size (mm)	159x30x12	159x30x12
Weight (g)	80	80

Specifications subject to change without notice

¹ Typical absorption curve supplied with each meter.

² Damage to coating may occur above this value.

³ For pulsed lasers and 50µsec pulse width.

Features:

- wavelength range: 190nm - 11µm
- pocket sized
- highly accurate
- instant recycle
- easy-to-read digital display
- automatic data hold
- auto ranging
- automatic shut-off
- long life lithium battery
- audible signals

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