Power Wizard™ — Compact Power Meter
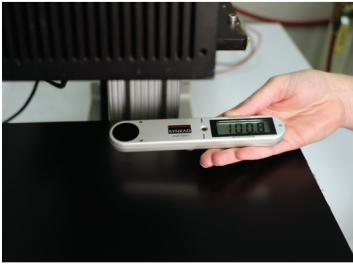
Highly accurate

Automatic data hold

Compact size

Wavelength range: 190nm-11µm

Audible signals

Innovative Power Wizard™ power meter offers unbeatable convenience in a small package.

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

Designed to measure power levels from 1-250W, Synrad's Power Wizard measures output power from the ultraviolet to the far infrared. This makes it the perfect tool for checking the performance of your excimer, argon, diode, YAG, and 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!

Power Wizard™ 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

Specifications:

Model	Power Wizard
Range	1 - 250 W
Resolution	0.1 W
Wavelength Range [1]	190nm - 11µm
Individual Calibrated Wavelength [1]	10.6µm
Target absorption [1] 190nm - 1.1µm and 9-11µm	0.93 - 0.99
Accuracy	± 5%
Target diameter (mm)	22
Settling time (seconds)	<4
Maximum allowable input power (single application, W)	300
Maximum average power density (kW/cm2) [2]	20
Maximum peak energy density (J/cm2) [3]	1
Maximum target temperature (°C)	180
Typical target temperature rise per measurement (°C/W)	0.4
Typical battery life	5 years (25,000 readings, average
Battery type	3 x CR2025 lithium
Auto shut-off time (seconds)	25
Data hold time (seconds)	15
Dimensions (inches) Dimensions (mm)	6.25 x 1.18 x 0.47 159 x 30 x 12
Weight	0.176 lbs / 80.0 kg

Specifications subject to change without notice.

(1) Typical absorbtion curve supplied with each meter.

(2) Damage to coating may occur above this value.

(3) For pulsed lasers and 50µsec pulse width.