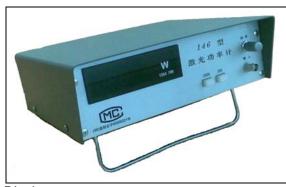


Economic Laser Power/Energy Meters





Display

Detector

Laser Power Meters

Model	146	147	148	M-92A	M-92B	M-92C	M-93
Range	200W	2uW-	N- 2W-200W 0.2W-	2W-50W	2W-	20mW	
	2000W	20W	2mW-200mW	20W	ZVV-5UVV	200W	200mW
Resolution	0.1W	1nW	1064nm:1mW 633nm:1uW	0.1mW	1mW	1mW	0.01mW
Sensor diameter	20mm			18mm	18mm	25mm	10mm
Wavelength	400-1100nm			190nm-25um			400-1100nm
Calibration @ wavelength	1064nm	633nm	1064nm 633nm	10.6um		633nm	
Max power density	15kW/cm ²			350W/cm ²			
Max energy density	70J/ cm ²						
Display	3.5-digit LED						
Un-stability	5%						
Cooling	water	air				water	air
application	High- power laser	Low- power laser	Medium laser		CO2 laser		Low-power laser

Remark: A power meter consists of a display and a detector. The power meter has been calibrated at a given wavelength before shipping.

Laser Energy Meters

Laser Lifergy	MICICIS					
Model	M2000B	M2000	145A	145B	145C	
Range	2J-200J	2J-200J	200mJ-20J	2J-200J	20mJ-2J	
Resolution	1mJ	1mJ	0.1mJ	1mJ	0.01mJ	
Sensor diameter	11.3mm 50mm	50mm	20mm	20mm	20mm	
Wavelength	190nm-25um	190nm-25um	400 nm- 3um	400nm-3um	400 nm-3um	
Calibration @ wavelength	10.6um	10.6um	1064nm, 532nm, 694nm			
Max power density	10GW/cm ²	10GW/cm ²	10GW/cm ²	10GW/cm ²	10GW/cm ²	
Max energy density	70J/ cm ²	70J/cm^2	70J/ cm ²	70J/ cm ²	70J/ cm ²	
Display	3.5-digit LED					
Un-stability	5%					
Cooling	air					
Application	CO₂laser energy measure	Long pulse width energy measure	Pulse repetition rate 0-30Hz measure			



ST6313B CO2 Laser Power Meter and Monitor

ST6313B is used to measure and monitor the laser CW power of CO2 lasers. The laser power values and signals can be used to monitor the laser processing and usage.



Display	4-1/2 digital display		
Maximum measured laser power	10kW		
Insert loss	<1%		
Calibration wavelength	10.6um		
Entrance beam aperture	60mm in diameter		
Response time	3s		
Display non-stability	+/-5%		
Output	Analog output signal		
Odiput	Display		
Alarm	Output an alarm when the detector stops.		



Portable Laser Power Meter

Innovative Power Meter Offers Unbeatable Convenience



The measurement of laser power is quick and simple with our power meter. The hand held power meter 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 systems, and as a service tool to ensure maximum performance of your laser system at any time.

Designed to measure power levels from 1 - 250W, the power meter 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 CO2 lasers, to name just a few.

Automatic data hold and auto ranging make the power meter 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 meter is ready to go.

Range	1-250W		
Resolution	0.1W		
Wavelength range ¹	190nm – 11um		
Individual calibrated wavelength ¹	10.6um		
Target absorption ¹ , 190nm – 1.1um & 9-11um	0.96-0.99		
Target absorption ¹ , 190nm – 1.1um	0.93-0.99		
Accuracy	±5%		
Target diameter	22mm		
Setting time	<4second		
Max. allowable input power (single application)	300W		
Max. average power density ²	20kW/cm ²		
Max. peak energy density ³	1J/cm ²		
Max. target temperature	180°C		
Typical target temp. rise per measurement	0.4°C/W		
Typical battery life	5 years (25,000 readings)		
Battery type	3xCR2025 lithium		
Auto shut-off time	25 seconds		
Data hold time	15 seconds		
Size	159x30x12mm		
Weight	80g		

Specifications subject to change without notice.

Features:

- Wavelength range: 190nm 11um
- Pocket sized
- Highly accurate
- Instant recycle
- Easy-to-read digital display
- Automatic data hold
- Auto ranging

¹ Typical absorption curve supplied with each meter

² Damage to coating may cause above this value.

³ For pulsed lasers and 50usec pulse width.



- Automatic shut-off
- Long life lithium battery
- Audible signals

