



LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

LASER POWER & ENERGY METER

Issue I.

Superior Reliability & Performance

GALAXY

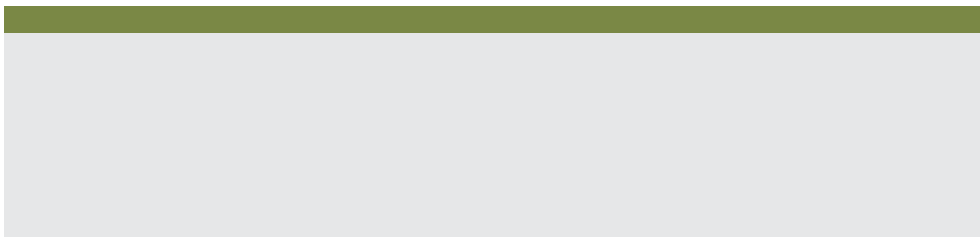
Intelligent Solutions, Manufacturing & Development

LASER POWER & ENERGY METER

Superior Reliability & Performance

GALAXY

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LASER POWER & ENERGY METER

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GALAXY

DESCRIPTION:

The GALAXY laser power and energy meter is a versatile measuring instrument designed for low to mid power range lasers.

The GALAXY is ideally suited for laser service engineers on the road and for laser process engineers requiring a quick and accurate system for measuring laser power.

The combination of innovative microprocessor and an ergonomical control panel offers practical measuring instrument which provide excellent accuracy, repeatability, high resolution and short responds-time.

The overall compact design, its simplicity of operation and its low cost provides the user with the ideal laser measuring solution.

APPLICATIONS:

Designed and developed to accommodate a broad range of users including field service and maintenance engineers, on line process engineers and general scientific users.

GALAXY

FEATURES:

Display	Large, high definition digital LCD display
Keyboard	Soft keys
Housing	Compact, simple shape
Control (Software)	Manual and RS-232 interface using DB9 Connector to PC (Optional)
Alarm	Overload alarm Red LED warns for intermittent power use
Measurement Limits	Selectable measurement limits

SPECIFICATIONS: OPERATION MODE

POWER METER MODE

Power Ranges	1mW to 10kW
Resolution	0.5‰ for any Full Scale
Response Time	< 1–5 sec (depends on each specific head)

ENERGY METER MODE

Power Ranges	1mJ to 300J
Resolution	0.5‰ for any Full Scale
Response Time	< 1–5 sec (depends on each specific head)

FIT MODE

Power Ranges	1 mW to 10kW
Resolution	0.5‰ for any Full Scale
Response Time	4 sec (final value)

SPECIFICATIONS: WAVELENGTHS

DESCRIPTIONS	PARAMETERS	UNIT
UV and Excimer laser range	250 to 350	nm
Visible range	400 to 700	nm
Laser Diodes range	800 to 900	nm
Nd-YAG wavelength	1064	nm
Erbium wavelength	2943	nm
CO ₂ wavelength	10600	nm

ELECTRICAL REQUIREMENTS:

Battery powered	2 LR6 (AA – 1.5V)	DC
Mains	230	VAC

ENVIRONMENTAL CONDITIONS:

Ambient Temperature	5 to 45	°C
Relative Humidity (non-condensing)	20 to 80	%

SIZE AND WEIGHT:

Power Meter		
Size (H x W x D)	105 x 150 x 45	mm
Weight	0.5	kg
Power Head		
Size (H x W x D)	100 x 100 x 36	
Weight	0.7	kg

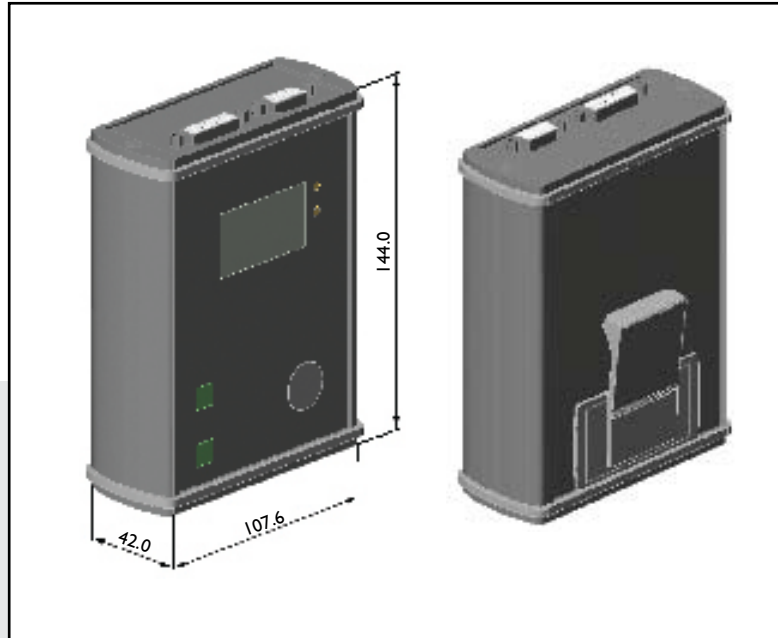
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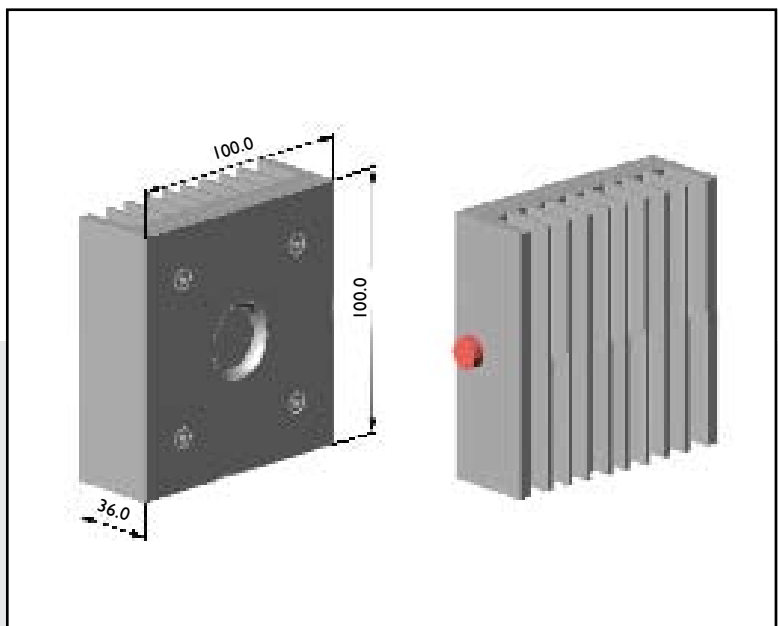
Layout outline: Power/Energy Meter

- Compact, rugged package with stand
- Simple user interface
- Analog output
- Wavelength compensation
- Battery operated
- External power supply optional



Layout outline: Power/Energy Head

- Air Cooled High Power Heads
- Water Cooled High Power Heads
- Small Area Sensors
- Large Area Sensors
- OEM or Customised Sensors
- Low Profile to Accommodate space restrictions





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