



LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

LASER POWER & ENERGY METER

Issue I.

Superior Reliability & Performance

GALAXY

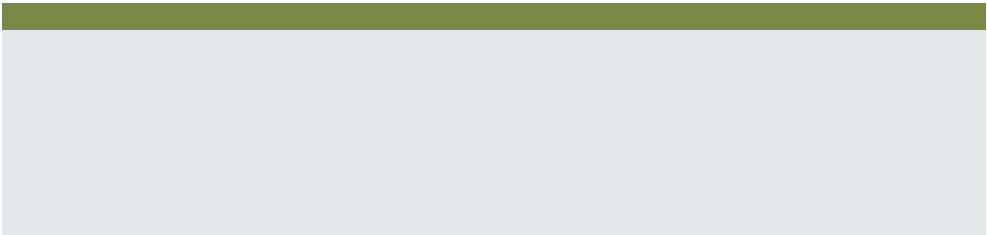
Intelligent Solutions, Manufacturing & Development

LASER POWER & ENERGY METER

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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 ergonomic control panel offers practical measuring instrument which provide excellent accuracy, repeatability, high resolution and short response-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 |

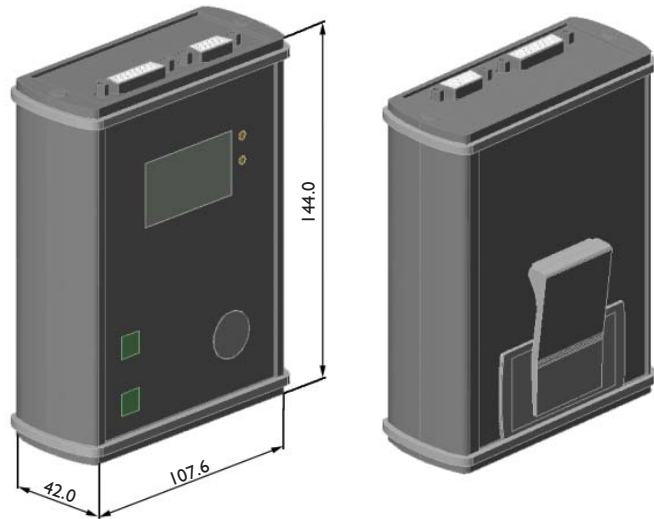
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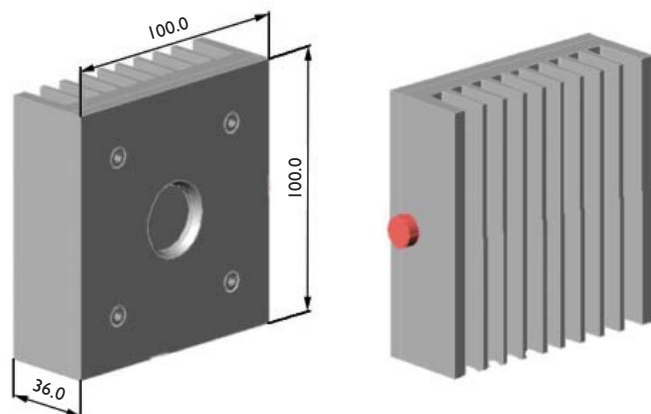
Layout outline: Power/Energy Meter

- 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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