

## Laser Power Meter User Manual

Thank you for purchasing products from Mactron Technology Co., Limited, please read the instructions carefully before use and safekeeping. This instruction manual is not a guarantee of quality, the correction of typographical errors, and product improvements, are explained by Mactron Technology Co., Limited, modified content will be codified in the reprint with installation instructions, no prior notice.

### I . Outline

Laser Power Meter using the amount of heat absorption measurement principle, thermal sensor measure the scope is very wide in spectral width and power, very high spatial uniformity, without spot size, spot location or spot uneven impact. Can measure continuous wave laser output power; pulse repetition rate can also measure the average laser output power.

### II. Technical parameters

1. Name: Laser Power Meter
2. Model: M-92C
3. Range: 0-200W
- 4 .Display: LED display
5. Minimum Resolution: 0.1W
6. Photosensitive area:  $\phi$  28mm
7. Spectral range: 8-11um
8. Calibration Wavelength: 10.6um
9. Response time:  $\leq$ 5S
10. Cooling: Water-cooled
11. Applications: CO2 laser
12. Nonlinearity:  $\pm$ 5%
13. Accept the surface response nonuniformity:  $\pm$ 5%
14. Consumption Power:  $\leq$ 8W
15. Power Requirements: AC 220V  $\pm$  10%, 50Hz

### III. Usage

Please check whether the part is complete after open the package. Accessories include: probe, base, display box, power cord, and product specifications.

2. Connecting signal lines and power cord, open the display box on the power switch.
3. Power meter probe on cooling water, please.
4. According to the power of the test object, choose appropriate range through the switch.
5. The laser output should be vertical alignment probe center of power meter, and do power measurement.
6. Turn off the power supply when test is finished.

#### IV. Notices

1. Handle with careful; prevent precision components for loss or damage.
2. Pedestal of Power meter should be placed.
3. Power meter should be connected cooling water when working, long time testing, and pay attention to the temperature of water
4. Inspection or disassembling must cut off power supply firstly.
5. Long time no use, please pull out the power cord and signal lines.
6. If there are any problems please contact the manufacturer, it is strictly prohibited to disassemble.

#### V. After sales service

This product is free warranty for one year, lifelong maintenance.

The following circumstance does not belong to free warranty object;

1. More than warranty period
2. Caused by improper installation failure;
3. Due to force majeure and man-made damage
4. Users to remove, repair caused by the transformation of the fault and damage.

#### VI. Reference Images

