FIRST COMMERCIAL
RADIATION PRESSURE POWER METER
(RPPM)

NEW

PATENT PENDING
1% ACCURACY
1 kW TO 5 MEGAWATT
100% BEAM AVAILABLE
COMPACT
ISO 9001 REGISTERED

The MEASURE of Confidence
Radiation Pressure Power Meter

Scientech is the only company in the world that has been a manufacturer of both electronic weighing systems and laser measurement equipment for over 40 years. These two seemingly diverse product lines have now merged into an exciting new device capable of measuring laser emission to unprecedented high power levels. With the force calibrated to a known mass, accuracy of 1% or better is achieved.

Traditional laser power measurement has primarily relied on thermal methods to quantify the optical power level. A mainstay in the industry and well proven in many applications, the thermal method has drawbacks, especially for powers above a few kilowatts. The first concern is what to do with all the heat. Forced convection is quickly replaced by flowing water, requiring constant inlet temperature and flow. All this requires complex heat exchangers and pumps.

A different paradigm exists. This is where the laser power is not measured by absorbing it, but rather by reflecting it and measuring the total radiation force experienced by the mirror. With this approach, 100% of the laser energy can be used while still making measurements.

Scientech’s Radiation Pressure Power Meter is designed to operate in the horizontal orientation making it adaptable to most laser bench setups. At 7 ½ x 8 x 10 inches and weighing 15 pounds makes the RPPM very user friendly.

**RPPM Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Avg. Power</td>
<td>5 megawatt</td>
</tr>
<tr>
<td>Min Avg. Power</td>
<td>1 kW</td>
</tr>
<tr>
<td>Accuracy</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Precision</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Response Time</td>
<td>4 Seconds</td>
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1 Year Warranty

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Scientech®
Electronic Weighing & Laser Power/Energy Measurement

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