

Power Sensors

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High-Power Water-Cooled Thermopile Sensors (to 10 kW)*

Most lasers above 300W will require one of these thermopile sensors. Water-cooling is required at all times. The post and stand pictured are included with each sensor.

SPECIFICATIONS	PM300	PM1K	PM3K
Wavelength Range (μm)	0.19 - 11	0.19 - 11	0.19 - 11
Power Range (W)	1 - 300	100 - 1000	100 - 3000
Max. Intermittent Power (<5 min.) (W)	450	1500	4000
Resolution (W)	0.1	1	1
Max. Avg. Power Density (kW/cm^2)	26	26	26
Max. Pulse Energy Density (J/cm^2 , 10 ns pulse)	0.6	0.6	0.6
Response Time (sec.)	5	30	30
Detector Coating	Broadband	Broadband	Broadband
Detector Diameter (mm)	19	50	50
Dimensions (mm)	$\varnothing 76 \times 56$	$\varnothing 120 \times 59$	$\varnothing 120 \times 59$
Calibration Uncertainty	$\pm 1\%$	$\pm 5\%$	$\pm 5\%$
Calibration Wavelength (nm)	514	1064	1064
Cooling Method	Water	Water	Water
Connector Type	PM DB-25	PM DB-25	PM DB-25
Cable Length (m)	2	2	2
Part Number	0011-1751	0012-1100	0012-1080

SPECIFICATIONS	PM5K	PM10K
Wavelength Range (μm)	0.19 - 11	0.19 - 11
Power Range (W)	100 - 5000	100 - 10000
Max. Intermittent Power (<5 min.) (W)	7500	15000
Resolution (W)	1	1
Max. Avg. Power Density (kW/cm^2)	26	26
Max. Pulse Energy Density (J/cm^2 , 10 ns pulse)	0.6	0.6
Response Time (sec.)	30	30
Detector Coating	Broadband	Broadband
Detector Diameter (mm)	50	50
Dimensions (mm)	$\varnothing 120 \times 59$	$\varnothing 120 \times 59$
Calibration Uncertainty	$\pm 5\%$	$\pm 5\%$
Calibration Wavelength (nm)	1064	1064
Cooling Method	Water	Water
Connector Type	PM DB-25	PM DB-25
Cable Length (m)	2	2
Part Number	0012-1450	0012-1470

* See the Power and Energy Sensor Compatibility Charts on page 11 for compatibility with meters.

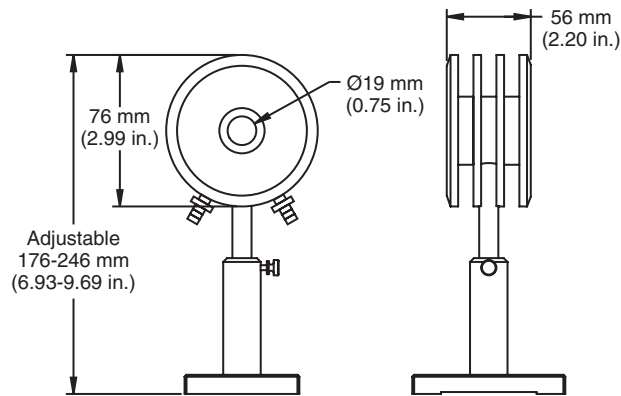


MODELS PM300 AND PM1K

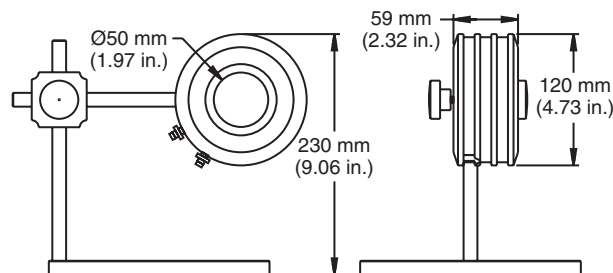
- Compact water-cooled design
- Large area: 19 to 50 mm diameter
- High damage threshold
- Broadband 0.19 to 11 μm spectral range
- Excellent for high-power CO_2 and YAG lasers



High-Power Water-Cooled Thermopile Sensors (to 10 kW)



Part Number	Description
0011-1751	PM300



Part Number	Description
0012-1100	PM1K
0012-1080	PM3K
0012-1450	PM5K
0012-1470	PM10K

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