

# Power Sensors

## POWER & ENERGY

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## Water-Cooled Thermopile Sensors (to 150W)\*

These compact, block sensors are ideal when space is an issue. They must be water-cooled to achieve the continuous, full power rating, but they can also be mounted on a heat sink or stand alone for intermittent application of power. These models incorporate cables for attachment to our meters.

See page 98 for OEM versions of these sensors. OEM versions include either a BNC or 4-pin connector to facilitate use in an embedded setting within a laser system.

SPECIFICATIONS	PM10-19C	PM150-19C	PM150-50C	PM150-50XC
Wavelength Range ( $\mu\text{m}$ )	0.19 - 11	0.19 - 11	0.19 - 11	0.15 - 1
Power Range (water-cooled)	10 mW - 10W	300 mW - 150W	300 mW - 150W	300 mW - 150W
Power Range (air-cooled, 5 min.)	10 mW - 5W	300 mW - 20W	300 mW - 80W	300 mW - 80W
Resolution (mW)	1	30	30	30
Max. Avg. Power Density ( $\text{kW}/\text{cm}^2$ )	26	26	26	26
Max. Pulse Energy Density ( $\text{J}/\text{cm}^2$ , 10 ns pulse)	0.6	0.6	0.6	0.6
Response Time (sec.)	2	2	5	5
Detector Coating	Broadband	Broadband	Broadband	UV
Detector Diameter (mm)	19	19	50	50
Dimensions (mm)	51 x 51 x 30	51 x 51 x 30	89 x 89 x 32	89 x 89 x 32
Calibration Uncertainty	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
Calibration Wavelength (nm)	514	514	514	514
Cooling Method	Water	Water	Water	Water
Connector Type	PM DB-25	PM DB-25	PM DB-25	PM DB-25
Cable Length (m)	2	2	2	2
Part Number	0012-1392	0012-2150	0012-2170	0012-1400



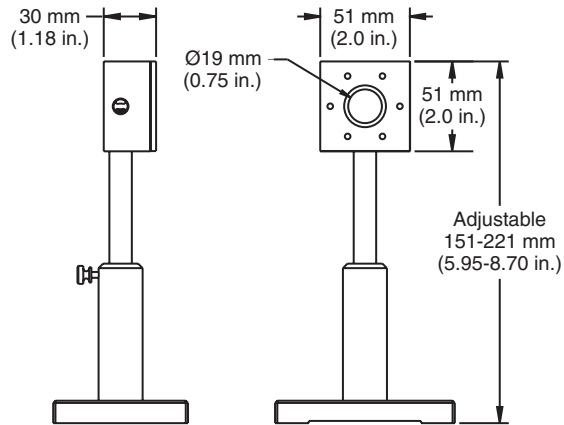
MODELS PM10-19C, PM150-19C AND PM150-50XC

- Compact water-cooled block detectors
- Broadband and excimer coatings
- 0.15 to 11  $\mu\text{m}$  spectral range
- Range: 10 mW to 150W
- 19 mm and 50 mm diameters

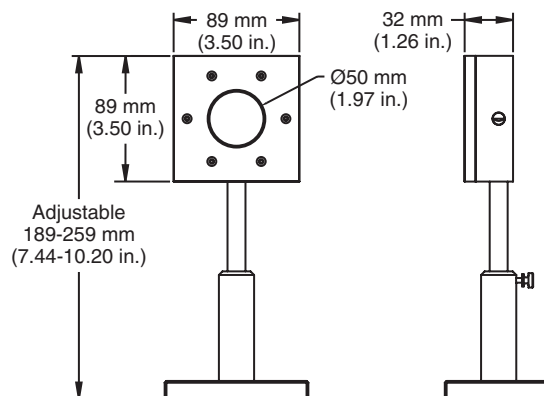
\* See the Power and Energy Sensor Compatibility Charts on page 11 for compatibility with meters.



## Water-Cooled Thermopile Sensors (to 150W)



Part Number	Description
0012-1392	PM10-19C
0012-2150	PM150-19C



Part Number	Description
0012-2170	PM150-50C
0012-1400	PM150-50XC

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