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Find the *Coherent PM150-50C* at our website: ***Click HERE***

Water-Cooled Thermopile Sensors

10 mW to 300W



PM300, PM150-50C and PM150-19C

Features

- **Water-cooled; but can be used air-cooled for short periods of time**
- **Spectrally flat from 0.19 µm to 11 µm**
- **1 mW to 100 mW resolution**
- **19 mm and 50 mm apertures**

These compact sensors are ideal in tight spaces, but must be water-cooled in order to achieve their full power specification during continuous operation. They can also be mounted to a heat sink or used standalone for intermittent use. Tap or distilled cooling water is recommended with these sensors - DI water and most common additives will not have any adverse effects. A technical note is available with more details. Flow rates are power dependent and range from 0.5 to 4 gallons per minute; pressure depends upon flow rate and ranges from 3 to 40 PSI (visit product pages at www.Coherent.com/LMC for more technical details). Water fittings are included. OEM versions of these sensors with passive and amplified outputs can be found on pages 105 and 106.

Device Specifications

ISO/IEC 17025:2005

AC-1630

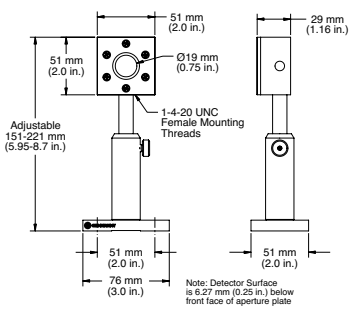
Model	PM10-19C	PM150-19C	PM150-50C	PM300
Wavelength Range (µm)	0.25 to 11			
Power Range (water-cooled)	10 mW to 10W	300 mW to 150W		1 W to 300W
Maximum Intermittent Power (<5 min.)(W)	5[1]	20[1]	80[1]	450[2]
Long-Pulse Joules Range (J)	0.5 to 10	1 to 150		–
Resolution (mW)	1	30		100
MaximumPower Density (kW/cm²)	6			
Maximum Energy Density (mJ/cm²)	600, 1064 nm, 10 ns			
Response Time (sec.)	2		5	
Detector Coating	Broadband			
Active Area Diameter (mm)	19		50	19
Calibration Uncertainty (%)(k=2)	±1			
Calibration Wavelength (nm)	514			
Cooling Method	Water-cooled			
Cable Type	PM DB-25			
Cable Length (m)	2			
Part Number	1098397	1098444	1098412**	1141474

[1] This intermittent power rating is for when the sensor is used without water-cooling.

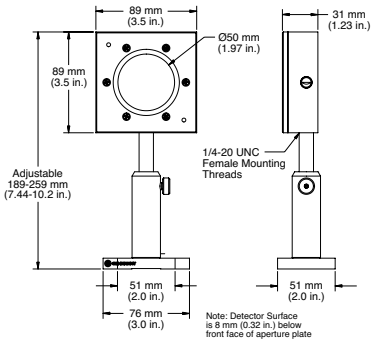
[2] This intermittent power rating is for when the sensor is used with water-cooling.

** C24 Quick Ship program: eligible for next business day shipment.

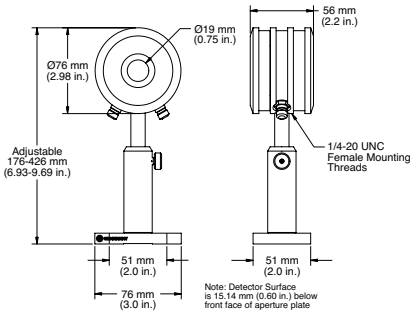
PM10-19C/PM150-19C



PM150-50C



PM300



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