



Air-Cooled Thermopile Sensors to 150 W

Convection, Air-Cooled Thermopile Sensors for Measuring Laser Power to 150 W

These air-cooled, surface absorbing sensors are intended for measurement of low to medium power pulsed and CW lasers from the 10 mW to 150 W power range.

Convection cooling makes them simple to operate as well as mechanically compact. Product numbers ending in "X" are specifically optimized for use with excimer lasers operating in the ultraviolet (150 nm to 400 nm).

The DB-25 sensor models are compatible with LabMax-Pro, LabMax-TOP/TO, FieldMaxII-TOP/TO/P, and FieldMate meters.

FEATURES

- Maximum powers from 2 W to 150 W
- Minimum power down to 10 mW
- Broadband and Excimer coatings
- · Convective air-cooled
- 0.15 μm to 11 μm spectral range
- 19 mm and 50 mm diameter active areas
- DB25 (meter required)
- RoHS Compliant

APPLICATIONS

- Medical
- Scientific
- Industrial
- General Laser Power Measurement from mW to 150 W



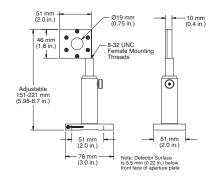


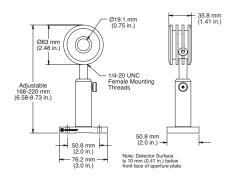
SPECIFICATIONS	PM2	PM10	PM30
Wavelength Range (µm)	0.25 to 11		
Power Range	10 mW to 2 W	10 mW to 10 W	100 mW to 30 W
Long-Pulse Joules Range (J)	0.5 to 2	0.5 to 10	0.5 to 50
Maximum Intermittent Power (<5 min.) (W)	5	30	50
Resolution (mW)	1	1	10
Maximum Power Density (kW/cm ²)	6		
Maximum Energy Density (mJ/cm ²)	600, 1064 nm, 10 ns		
Response Time (sec.)	2		
Detector Coating	Broadband		
Active Area Diameter (mm)	19		
Calibration Uncertainty (%) (k=2)	±1		
Calibration Wavelength (nm)	514		
Cooling Method	Air-cooled		
Cable Type	PM DB-25		
Cable Length (m)	2		
Part Number	1098329 ¹	1097901 ¹	1098314¹

¹ C24 Quick Ship program: eligible for next business day shipment.

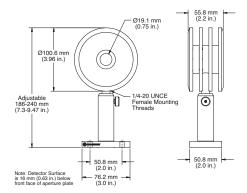
MECHANICAL SPECIFICATIONS

PM2 PM10





PM30



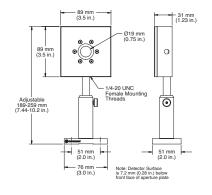


SPECIFICATIONS	PM100-19C ¹	PM150	PM150-50
Wavelength Range (μm)	0.25 to 11		
Power Range	300 mW to 100 W	300 mW to 150 W	300 mW to 150 W
Long-Pulse Joules Range (J)	1 to 100	1 to 150	1 to 150
Maximum Intermittent Power (<5 min.) (W)	100	300	300
Resolution (mW)	30		
Maximum Power Density (kW/cm ²)	6		
Maximum Energy Density (mJ/cm ²)	600, 1064 nm, 10 ns		
Response Time (sec.)	2	2	5
Detector Coating	Broadband		
Active Area Diameter (mm)	19	19	50
Calibration Uncertainty (%) (k=2)	±1		
Calibration Wavelength (nm)	514		
Cooling Method	Air-cooled		
Cable Type	PM DB-25		
Cable Length (m)	2		
Part Number	1098483	1098407	109839

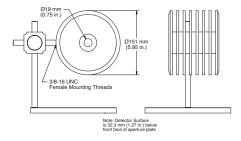
¹ This sensor is designed for intermittent use only.

MECHANICAL SPECIFICATIONS

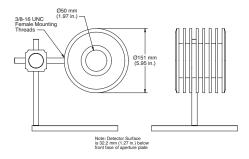
PM100-19C



PM150



PM150-50



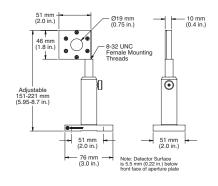


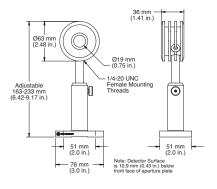
SPECIFICATIONS	PM2X	PM10X	PM30X
Wavelength Range (µm)	0.15 to 1		
Power Range	10 mW to 2 W	10 mW to 10 W	100 mW to 30 W
Long-Pulse Joules Range (J)	0.5 to 2	0.5 to 10	0.5 to 50
Maximum Intermittent Power (<5 min.) (W)	5	30	50
Resolution (mW)	1	1	10
Maximum Power Density (kW/cm ²)	6		
Maximum Energy Density (mJ/cm ²)	600, 1064 nm, 10 ns		
Response Time (sec.)	2		
Detector Coating	UV		
Active Area Diameter (mm)	19		
Calibration Uncertainty (%) (k=2)	±1		
Calibration Wavelength (nm)	514		
Cooling Method	Air-cooled		
Cable Type	PM DB-25		
Cable Length (m)	2		
Part Number	1098457	1098423	1098498¹

¹ C24 Quick Ship program: eligible for next business day shipment.

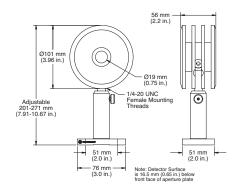
MECHANICAL SPECIFICATIONS

PM2X PM10X





РМ30Х







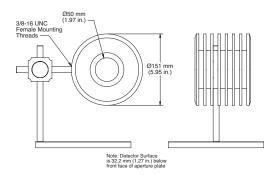


Air-Cooled Thermopile Sensors to 150 W Datasheet

DMAFOV
PM150X
0.15 to 1
300 mW to 150 W
1 to 150
300
30
6
600, 1064 nm, 10 ns
5
UV
50
±1
514
Air-cooled
PM DB-25
2
1098455

MECHANICAL SPECIFICATIONS

PM150X





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