

PowerMax-USB/RS Sensors

5 mW to 30W



PM2, PM10 and PM30

Features

- Convective air-cooled
- Spectrally flat from 0.19 μm to 11 μm
- Noise equivalent power down to 0.2 mW
- 19 mm aperture

These thermopile sensors are used to measure CW and pulsed lasers from 5 mW up to 30W average power output. These sensors are able to dissipate heat via convection cooling, which makes them convenient to use.

Device Specifications

ISO/IEC 17025:2005

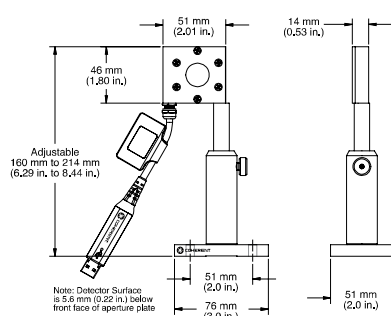


Model	PM2	PM10	PM30
Wavelength Range (μm)	0.19 to 11		
Power Range	5 mW to 2W	5 mW to 10W	10 mW to 30W
Long-Pulse Joules Range (J)	0.5 to 2	0.5 to 10	0.5 to 50
Max. Intermittent Power (<5 min.)(W)	5	30	50
Noise Equivalent Power (mW)	0.2	0.2	0.5
Maximum Power Density (kW/cm^2)	6		
Maximum Energy Density (mJ/cm^2)	600 (10 ns, 1064 nm)		
Response Time (sec.)(0% to 95%)			
Speed-up On	2	2	3
Speed-up Off	4	4	4
Detector Coating	Broadband		
Detector Element	Thermopile		
Optic	None		
Detector Diameter (mm)	19		
Calibration Uncertainty (%) (k=2)	± 2		
Power Linearity (%)	± 1		
Spectral Compensation Accuracy (%)	± 1.5		
Long-Pulse Joules Accuracy (%)	± 3		
Calibration Wavelength (nm)	10,600		
Cooling Method	Air		
Cable Type	USB and RS		
Cable Length (m)	2.5 (USB)/0.3 (RS)		
Part Number ¹	1174264 (USB)	1174262 (USB)**	1174257 (USB)** 1174258 (RS)

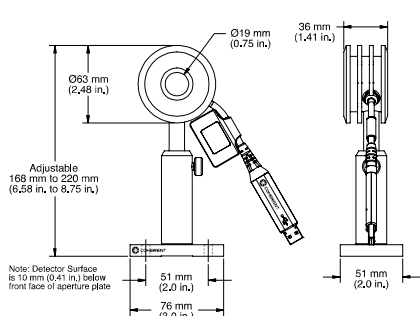
¹ Software and post stand included.

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

PM2



PM10



PM30

