

# PowerMax-USB/RS Sensors

5 mW to 30W



Models PM2, PM10, PM30

## Features

- Convective air-cooled
- Spectrally flat from 0.19  $\mu\text{m}$  to 11  $\mu\text{m}$
- 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.

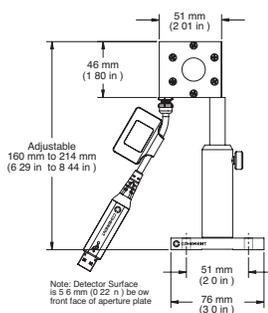
## Device Specifications



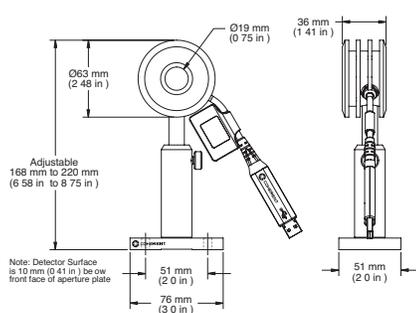
Model	PM2	PM10	PM30
Wavelength Range ( $\mu\text{m}$ )		0.19 to 11	
Power Range	5 mW to 2W	5 mW to 10W	10 mW to 30W
Long-Pulse Joules Range (J)	0.5 to 2	0.5 to 10	0.5 to 50
Max. Intermittent Power (<5 min.)(W)	5	30	50
Noise Equivalent Power (mW)	0.2	0.2	0.5
Maximum Power Density ( $\text{kW}/\text{cm}^2$ )		6	
Maximum Energy Density ( $\text{mJ}/\text{cm}^2$ )		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)		$\pm 2$	
Power Linearity (%)		$\pm 1$	
Spectral Compensation Accuracy (%)		$\pm 1.5$	
Long-Pulse Joules Accuracy (%)		$\pm 3$	
Calibration Wavelength (nm)		10,600	
Cooling Method		Air	
Cable Type		USB and RS	
Cable Length (m)		2.5 (USB)/0.3 (RS)	
Part Number <sup>1</sup>	1174264 (USB)	1174262 (USB)	1174257 (USB) 1174258 (RS)

<sup>1</sup> Software and post stand included.

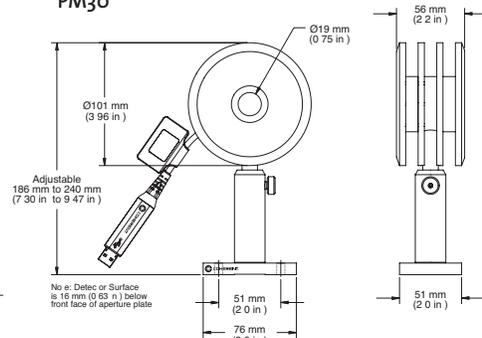
## PM2



## PM10



## PM30



- POWER & ENERGY
- Power & Energy Meters
- USB/RS Power Sensors
- DB-25 Power Sensors
- USB/RS Energy Sensors
- DB-25 Energy Sensors
- Custom & OEM
- BEAM DIAGNOSTICS
- CALIBRATION & SERVICE
- Laser Cross-Reference Index
- Model Name Index