

Coherent® High Power Water-Cooled Thermopile Sensor PM3K+ 1409627 | 3kW Max Power

See More by [Coherent®](#)



Stock **#12-407** [CONTACT US](#)

-

1

+

C\$5,117⁰⁰

ADD TO CART

Volume Pricing	
Qty 1+	C\$5,117.00 each
Need More?	Request Quote

Product Downloads

General	
1409627	Model Number:
Meter required	Type:
3	Calibration Uncertainty (%):
Water	Cooling Method:

15 5s if Speed-up is on	Response Time (s):
	Compatible Meters:
	#35-203, #12-393, #59-978, #88-411, #66-277, #88-412, #23-660, #23-661
Maximum Incident Energy Density: 600mJ/cm ² (10ns, 1064nm)	
Physical & Mechanical Properties	
Active Area Diameter (mm): 50	
Optical Properties	
Calibration Wavelength (nm): 1070	
Wavelength Range (nm): 250 - 11000	
Wavelength Range (µm): 0.25 - 11	
Electrical	
Power Resolution (W): 1	
Power Range: 5W-3kW	
Maximum Power (W): 3000	
Minimum Power (W): 5	
Hardware & Interface Connectivity	
Computer Interface: DB-25	
Regulatory Compliance	
Certificate of Conformance: View	

Product Details

- Water-Cooling Capability to Withstand Laser Powers up to 5kW
- Spectrally Flat from 0.25 to 11µm
- Large 50mm Aperture for Accepting a Wide Range of Beam Diameters

Coherent® High Power Water-Cooled Thermopile Sensors are designed to withstand high power lasers up to 5kW. The water-cooling mechanism reduces the heat transferred to the sensor from input lasers to prevent sensor damage when used with the recommended minimum water flowrate. This makes these sensors ideal for use with >100W power industrial CO₂ and Nd:YAG lasers that exceed the power handling capability of standard thermopile sensors. Coherent® High Power Water-Cooled Thermopile Sensors cover a broad wavelength spectrum from 190 - 11,000nm, allowing for them to be used in most laser applications. A power resolution of 1W allows for these thermopile sensors to provide exceptional measurement accuracy of high power lasers. Refer to manual included with purchase for fitting and water flow specifications.