

Coherent® High Power Water-Cooled Thermopile Sensor PM1K+ 1409621 | 1kW Max Power

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+

€2.810⁰⁰

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Product Downloads

General	
1409621	Model Number:
Meter required	Type:
3	Calibration Uncertainty (%):
	Cooling Method:

Water	
14 5s if Speed-up is on	Response Time (s):
#35-203 , #12-393 , #59-978 , #88-411 , #66-277 , #88-412 , #23-660 , #23-661	Compatible Meters:
600mJ/cm ² (10ns, 1064nm)	Maximum Incident Energy Density:
Physical & Mechanical Properties	
50	Active Area Diameter (mm):
Optical Properties	
1070	Calibration Wavelength (nm):
250 - 11000	Wavelength Range (nm):
0.25 - 11	Wavelength Range (µm):
Electrical	
1	Power Resolution (W):
5W-1kW	Power Range:
1000	Maximum Power (W):
5	Minimum Power (W):
Hardware & Interface Connectivity	
DB-25	Computer Interface:
Regulatory Compliance	
Exempt	RoHS 2015:
Contains SVHC(s)	Reach 224:
View	Certificate of Conformance:

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.