

Coherent® Thermopile Power Sensor 1097901 | 10mW - 10W, DB25

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SPECIFICATIONS

General

Model Number:

PM10
Coherent Part Number: 1097901

Type:

[Meter required](#)

±1	Calibration Uncertainty (%):
0.5 - 10	Long Pulse Joule Mode Range (J):
Air	Cooling Method:
0.6 @ 1064nm, 10ns	Maximum Incident Energy Density (J/cm²):

#35-203 , #12-393 , #59-978 , #88-411 , #66-277 , #88-412	Compatible Meters:
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Physical & Mechanical Properties

19	Active Area Diameter (mm):
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Optical Properties

514	Calibration Wavelength (nm):
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190 - 11000	Wavelength Range (nm):
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0.19 - 11	Wavelength Range (µm):
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Sensor

Thermopile	Type of Sensor:
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Electrical

30 (air-cooled)	Maximum Intermittent Power, <5min (W):
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6	Maximum Incident Power Density (kW/cm²):
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10mW - 10W	Power Range:
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Hardware & Interface Connectivity

2.0	Length of Cable (m):
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DB25	Computer Interface:
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Regulatory Compliance

Exempt	RoHS 2015:
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Contains SVHC(s)	Reach 224:
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View	Certificate of Conformance:
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PRODUCT DETAILS

- Superior Damage Resistance
- Wide Dynamic Range
- ISO 17025 Certified

Coherent® Thermopile Power Sensors are ideal for measuring the average power of continuous wave lasers or pulsed laser energy. Thermopile sensors operate by absorbing and converting incident laser radiation into heat, which then flows to a heat sink. The temperature difference between the absorber and heat sink is converted into an electrical signal by a thermocouple junction. Coherent® Thermopile Power Sensors, unlike semiconductor sensors, do not saturate. Unlike semiconductor sensors, thermopile sensors feature high power capability and flat spectral response.