

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

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#### Product Downloads

#### General

Model Number:

PM10  
Coherent Part Number: 1097901

Type:

[Meter required](#)

Calibration Uncertainty (%):

±1

0.5 - 10 Long Pulse Joule Mode Range (J):

Air Cooling Method:

0.6 @ 1064nm, 10ns Maximum Incident Energy Density (J/cm<sup>2</sup>):

Compatible Meters:  
[#35-203](#), [#12-393](#), [#59-978](#),  
[#88-411](#), [#66-277](#), [#88-412](#)

## Physical & Mechanical Properties

19 Active Area Diameter (mm):

## Optical Properties

514 Calibration Wavelength (nm):

190 - 11000 Wavelength Range (nm):

0.19 - 11 Wavelength Range (µm):

## Sensor

Thermopile Type of Sensor:

## Electrical

30 (air-cooled) Maximum Intermittent Power, <5min (W):

6 Maximum Incident Power Density (kW/cm<sup>2</sup>):

10mW - 10W Power Range:

## Hardware & Interface Connectivity

2.0 Length of Cable (m):

DB25 Computer Interface:

## Regulatory Compliance

[Exempt](#) RoHS 2015:

[Contains SVHC\(s\)](#) Reach 224:

[View](#) Certificate of Conformance:

## 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.