

# Coherent® High-Sensitivity Thermopile Sensor PS19Q 1098341 | 1W Max Power

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Coherent® High-Sensitivity Thermopile Sensors

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## Product Downloads

### General

**Model Number:**  
PS19Q Coherent Part Number: 1098341

**Type:**  
[Meter required](#)

**Linearity (%):**  
±1

**Calibration Uncertainty (%):**  
1

**Cooling Method:**

Air

**Response Time (s):**

2

**Note:**

Includes a Wedged Quartz Window to Eliminate Thermal Background Radiation and Air Current Effects

**Compatible Meters:**

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

**Maximum Incident Energy Density:**

50mJ/cm<sup>2</sup> (10ns, 1064nm)

## Physical & Mechanical Properties

**Active Area Diameter (mm):**

19

## Optical Properties

**Calibration Wavelength (nm):**

514

**Wavelength Range (nm):**

300 - 2000

**Wavelength Range (µm):**

0.3 - 2

## Sensor

**Type of Sensor:**

Thermopile

## Electrical

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

0.5

**Power Range:**

100µW - 1W

**Maximum Power (W):**

1

**Power Resolution:**

10µW

## Hardware & Interface Connectivity

**Length of Cable (m):**

2

**Computer Interface:**

DB-25

## Environmental & Durability Factors

**Thermally Stabilized:**

Yes

## Regulatory Compliance

**RoHS 2015:**

[Exempt](#)

**Reach 224:**

[Contains SVHC\(s\)](#)

**Certificate of Conformance:**

[View](#)

## Product Details

- Broad Spectral Range with High Sensitivity and High Resolution
- Large Active Area Sensors up to 19mm in Diameter
- Flat Broadband Output with No Saturation above 1mW/cm<sup>2</sup>

Coherent® High-Sensitivity Thermopile Sensors are designed to have a broad spectral response to accommodate an array of lasers with different wavelengths. The large active area and high resolution of these thermopile sensors allows for accurate measurements of low-power lasers. A range of models are available to meet specific needs relating to thermal stability, background radiation, and air current effect. Coherent® High-Sensitivity Thermopile Sensors are designed to accurately measure the laser power of small laser diodes, HeNe lasers, and small ion lasers. Unique to this design, these sensors will not saturate when laser power exceeds 1mW/cm<sup>2</sup>.