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# Coherent® PowerMax USB PS19 Measurement System 1174261 | 1W Max Power

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Coherent® High-Sensitivity Thermopile Sensors

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## General

**Model Number:**

PS19
Coherent Part Number: 1174261

**Type:**

Meterless

**Linearity (%):**

±1

**Calibration Uncertainty (%):**

±2

**Long Pulse Joule Mode Range (J):**
0.001 - 1

**Long Pulse Joule Mode Accuracy (%):**
±3

**Cooling Method:**
Air

**Response Time (s):**
2

**Maximum Incident Energy Density:**
50mJ/cm$^2$ (10ns, 1064nm)

## Physical & Mechanical Properties

**Active Area Diameter (mm):**
19

## Optical Properties

**Calibration Wavelength (nm):**
514

**Wavelength Range (nm):**
300 - 11000

**Wavelength Range (µm):**
0.3 - 11

## Sensor

**Type of Sensor:**
Thermopile

## Electrical

**Spectral Compensation Accuracy (%):**
±1.5

**Maximum Incident Power Density (kW/cm$^2$):**
0.5

**Power Range:**
100µW - 1W

**Maximum Power (W):**
1

**Noise Equivalent Power:**
5µW

## Hardware & Interface Connectivity

**Length of Cable (m):**
2.5

**Computer Interface:**
USB

## Environmental & Durability Factors

**Thermally Stabilized:**
Yes

## Regulatory Compliance

**RoHS 2015:**
Exempt

**Reach 224:**
Contains SVHC(s)

**Certificate of Conformance:**
View

**Country of Origin:**
United States

**Imported By:**
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

# 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$^2$

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$^2$.

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