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

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Coherent® High-Sensitivity Thermopile Sensors

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SPECIFICATIONS

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

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.