

# Coherent® PowerMax USB PS19Q Measurement System 1168343 | 1W Max Power

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**General**

<b>Model Number:</b>	PS19Q Coherent Part Number: 1168343
<b>Type:</b>	Meterless
<b>Linearity (%):</b>	±1
<b>Calibration Uncertainty (%):</b>	±2
<b>Long Pulse Joule Mode Range (J):</b>	0.001 - 1

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

Air **Cooling Method:**

2 **Response Time (s):**

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

**Maximum Incident Energy Density:**  
50mJ/cm<sup>2</sup> (10ns, 1064nm)

## Physical & Mechanical Properties

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

## Optical Properties

514 **Calibration Wavelength (nm):**

300 - 2100 **Wavelength Range (nm):**

0.3 - 2.1 **Wavelength Range (µm):**

## Sensor

Thermopile **Type of Sensor:**

## Electrical

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

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

100µW - 1W **Power Range:**

0.1 **Minimum Power (mW):**

1 **Maximum Power (W):**

3µW **Noise Equivalent Power:**

## Hardware & Interface Connectivity

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

USB **Computer Interface:**

## Environmental & Durability Factors

Yes **Thermally Stabilized:**

## Regulatory Compliance

[Exempt](#) **RoHS 2015:**

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

[View](#) **Certificate of Conformance:**

## Product Details

- Thermopile Detector Element for High Power Measurements
- Measure Beam Position on Detector Surface
- ISO 17025 Certified

Coherent® Beam Position Sensing Thermopile Power Sensors are all-purpose sensors designed to measure the average power or energy of a wide variety of continuous wave or pulsed lasers. Coherent Beam Position Sensing Thermopile Power Sensors utilize a quadrant thermopile detector disk to sense the position of the laser beam on the detector surface while measuring the laser power. Coherent thermopile sensors can operate across a wide range of input powers, and do not saturate.

**Note:** The LM-20 is designed for embedded use and must be mounted on a heat sink.