

Power Meter

Newport 843-R-USB

<https://www.newport.com/p/843-R-USB>

Thermopile Sensor

Newport 919P-020-12

<https://www.newport.com/p/919P-020-12>

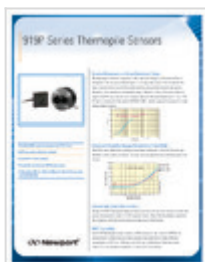
Sensor Specifications

Detector Type General Purpose	Spectral Range 0.19 to 11 μm	Maximum Measurable Power 4 W (standalone), 20 W (with a heat sink)
Sensor Size $\varnothing 12\text{ mm}$	Maximum Power Density 23 kW/cm^2	Maximum Energy Density <100 ns, 0.3 J/cm^2 0.5 ms, 2 J/cm^2 2 ms, 2 J/cm^2 10 ms, 2 J/cm^2
Noise Equivalent Power 0.5 mW	Power Range 10 mW - 4 W (standalone), 20 W (with a heat sink)	Noise Equivalent Energy 20 mJ
Cooling Sensor Body	Connector Type DB15	Rise Time 0.8 s
Linearity $\pm 1\%$	Calibration Uncertainty $\pm 3\%$	Repeatability $\pm 0.5\%$
Beam Size Dependence $\pm 0.7\%$	Detector Active Area 1.13 cm^2	Operating Temperature Range 15°C to 35°C, <70% RH, non-condensing
Storage Temperature Range 0°C to 50°C, <90% RH	Cable Length 1.5 m	Dimensions 38 x 38 x 14 mm
Repeatability $\pm 0.5\%$	Weight 0.2 kg	RoHS Compliant

Attached file

919P-Detector-Datasheet.pdf

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