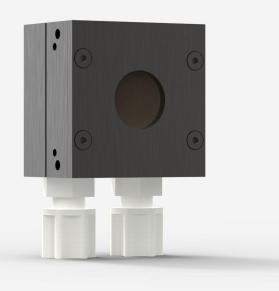


UP19K-200W-H9-D0

Thermal detector for laser power measurement up to 200 W.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

Increase the power capability of your detector: 5 different cooling modules

HIGH PERFORMANCE

- Fast rise time (0.6 sec)
- High damage threshold (45 kW/cm²)

COMPACT DESIGN

Only 20.6 mm thick (15S model)

ENERGY MODE

Measure single shot energy up to 15 ${\tt J}$

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-S-233

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Maximum average power (continuous) ¹	200 W
Maximum average power (continuous)	200 W
Maximum average power (1 minute) 2	200 W
Noise equivalent power ³	3 mW
Spectral range ⁴	0.193 - 20 μm
Typical rise time ⁵	1.5 s
Power calibration uncertainty ⁶	±2.5 %
Repeatability	±0.5 %

- 1. Minimum cooling flow 0.5 liters/min, water temperature \leq 22°C, 1/8 NPT compression fittings for 1/4 inch semi-rigid tube. Contact Gentec-EO for clean deionized water cooling module option.
- 2. Minimum cooling flow 0.5 liters/min, water temperature ≤ 22°C, 1/8 NPT compression fittings for 1/4 inch semi-rigid tube. Contact Gentec-EO for clean deionized water cooling module option.
- 3. Nominal value, actual value depends on electrical noise in the measurement system.
- 4. For the calibrated spectral range, see the user manual.
- 5. With anticipation.
- 6. Including linearity with power.

MEASUREMENT CAPABILITIES (ENERGY MODE)

MEASOREMENT CAPABILITIES (ENERGY MODE)	
Maximum measurable energy ¹	25 J
Noise equivalent energy ²	0.06 J
Minimum repetition period	4 s
Maximum pulse width	88 ms
Energy calibration uncertainty ³	±5 %

- 1. For 360 μs pulses. Higher pulse energy possible for long pulses (ms), less for short pulses (ns).
- 2. Nominal value, actual value depends on electrical noise in the measurement system.
- 3. When single-shot energy calibration is purchased

DAMAGE THRESHOLDS

Maximum average power density ¹ 45 kW	√/cm²
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Maximum energy density²

- 1. At 1064 nm, 10 W CW. May vary with wavelength and average power.
- 2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width.

PHYSICAL CHARACTERISTICS	
Cooling	Water
Aperture diameter	19 mm
Absorber	H9
Dimensions	76.5H x 50W x 33D mm
Weight	0.24 kg
ORDERING INFORMATION	
UP19K-200W-H9-D0	200582
UP19K-200W-H9-INT-D0	203045
UP19K-200W-H9-BLU-D0	203655
UP19K-200W-H9-IDR-D0	203343

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

INTERESTED IN THIS PRODUCT?



Find your local sales representative at gentec-eo.com/contact-us