

UP19K-150W-H5-D0

Thermal detector for laser power measurement up to 150 W.



PRODUCT FAMILY KEY FEATURES

THIS PRODUCT HAS BEEN SUPERSEDED. CHECK THIS PAGE FOR THE NEW PRODUCT.

MODULAR CONCEPT

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

HIGH PERFORMANCE

- Fast rise time (0.6 sec)
- High damage threshold (36 kW/cm²)

COMPACT DESIGN

Only 20.6 mm thick (15S model)

ENERGY MODE

Measure single-shot energy up to 15 J

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-S-233

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Maximum average power (continuous) ¹	150 W
Maximum average power (1 minute) ²	190 W
Noise equivalent power ³	1 mW
Spectral range ⁴	0.193 - 20 µm
Typical rise time ⁵	0.6 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 \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.
- 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)

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Maximum measurable energy ¹	15 Ј
Noise equivalent energy ²	0.02 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

DAMAGE TIRESTOLDS	
Maximum average power density ¹	36 kW/cm²
Maximum energy density ²	1 J/cm ²

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	
Aperture diameter	19 mm
Absorber	H5
Dimensions	76.5H x 50W x 33D mm
Weight	0.24 kg
ORDERING INFORMATION	
UP19K-150W-H5-D0	200144
UP19K-150W-H5-IDR-D0	203335
UP19K-150W-H5-BLU-D0	203634

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

INTERESTED IN THIS PRODUCT?

GET A QUOTE

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