

### 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# THIS PRODUCT HAS BEEN SUPERSEDED.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/cm<sup>2</sup>)

#### 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) <sup>1</sup>	150 W
Maximum average power (1 minute) <sup>2</sup>	190 W
Noise equivalent power <sup>3</sup>	1 mW
Spectral range <sup>4</sup>	0.193 - 20 µm
Typical rise time <sup>5</sup>	0.6 s
Power calibration uncertainty <sup>6</sup>	±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 <sup>1</sup>	15 Ј
Noise equivalent energy <sup>2</sup>	0.02 J
Minimum repetition period	4 s
Maximum pulse width	88 ms
Energy calibration uncertainty <sup>3</sup>	±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 <sup>1</sup>	36 kW/cm²
Maximum energy density <sup>2</sup>	1 J/cm <sup>2</sup>

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