

## UP19K-30H-H5-D0

Thermal detector for laser power measurement up to 30 W.



### 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 (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)	30 W
Maximum average power (1 minute)	60 W
Noise equivalent power <sup>1</sup>	1 mW
Spectral range <sup>2</sup>	0.193 - 20 μm
Typical rise time <sup>3</sup>	0.6 s
Typical power sensitivity <sup>4</sup>	0.65 mV/W
Power calibration uncertainty <sup>5</sup>	±2.5 %
Repeatability	±0.5 %

1. Nominal value, actual value depends on electrical noise in the measurement system.
2. For the calibrated spectral range, see the user manual.
3. With anticipation.
4. Into 100 kΩ load. Maximum output voltage = sensitivity x maximum power.
5. Including linearity with power.

### MEASUREMENT CAPABILITIES (ENERGY MODE)

Typical energy sensitivity	0.65 mV/J
Maximum measurable energy <sup>1</sup>	15 J
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

Maximum average power density <sup>1</sup>	36 kW/cm <sup>2</sup>
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. Damage thresholds vary with pulse width. Use our Product Finder or contact Gentec-EO to know about damage thresholds for different pulse widths.

## PHYSICAL CHARACTERISTICS

Cooling	Convection (heatsink)
Aperture diameter	19 mm
Absorber	H5
Dimensions	50H x 50W x 56.3D mm
Weight	0.21 kg

## ORDERING INFORMATION

UP19K-30H-H5-D0	200143
UP19K-30H-H5-INT-D0	202619
UP19K-30H-H5-BLU-D0	203643
UP19K-30H-H5-IDR-D0	203345

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](https://gentec-eo.com/contact-us)