

UP17P-6S-W5-D0

Thermal detector for laser power measurement up to 6 W.



KEY FEATURES

ULTRA THIN CASING

Only 10.7 mm thick!

CHOICE BETWEEN 2 ABSORBERS

- H5: 36 kW/cm<sup>2</sup>
- W5: unequalled 100 kW/cm<sup>2</sup>

HIGH "POWER TO SIZE" RATIO

6 W continuous reading

ENERGY MODE

Measure single shot energy up to 200 J (with the W5 version)

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

[STAND-S-233](#)

SPECIFICATIONS

MEASUREMENT CAPABILITIES	
Maximum average power (continuous)	6 W
Maximum average power (1 minute)	7 W
Noise equivalent power <sup>1</sup>	1 mW
Spectral range <sup>2</sup>	0.193 - 10 μm
Typical rise time <sup>3</sup>	1.4 s
Typical power sensitivity <sup>4</sup>	0.6 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	0.2 mV/J
Maximum measurable energy <sup>1</sup>	200 J
Noise equivalent energy <sup>2</sup>	0.02 J
Minimum repetition period	5 s
Maximum pulse width	133 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>	100 kW/cm <sup>2</sup>
Maximum energy density <sup>2</sup>	1.1 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
Aperture diameter	17 mm
Absorber	W
Dimensions	46H x 46W x 10.7D mm
Weight	0.1 kg

ORDERING INFORMATION

UP17P-6S-W5-D0	201021
UP17P-6S-W5-IDR-D0	203329
UP17P-6S-W5-INT-D0	203041

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)