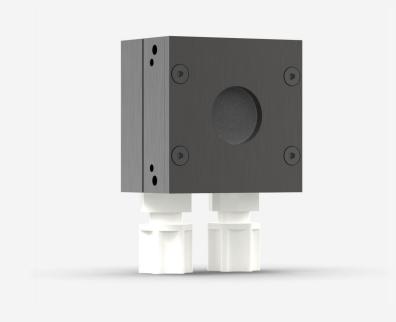


UP19K-50W-W5-D0

Thermal detector for laser power measurement up to 50 W.



PRODUCT FAMILY KEY FEATURES

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

VERY HIGH DAMAGE THRESHOLD 100 kW/cm² in average power density

COMPACT DESIGN Only 21 mm thick (15S model)

ENERGY MODE Measure single shot energy up to 200 J

SMART INTERFACE Containing all the calibration data

COMPATIBLE STAND

STAND-S-233

SPECIFICATIONS

MEASUREMENT CAPABILITIES	

Maximum average power (continuous)150 WMaximum average power (1 minute)285 WNoise equivalent power31 mWSpectral range40.193 - 10 µmTypical rise time51.4 sPower calibration uncertainty6±2.5 %Repeatability±0.5 %

1. 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.

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)

Maximum measurable energy ¹	200 J
Noise equivalent energy ²	0.02 J
Minimum repetition period	5 s
Maximum pulse width	133 ms
Energy calibration uncertainty ³	±5 %

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

DAMAGE THRESHOLDS

Maximum average power density ¹	100 kW/cm²
Maximum energy density ²	1.1 J/cm²

l. 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.

Water
19 mm
W
5D mm
0.24 kg
200337
203661
203049
203357

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