



## UP19K-50L-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/cm<sup>2</sup> in average power density

#### COMPACT DESIGN

Only 21 mm thick (15S model)

#### **ENERGY MODE**

Measure single shot energy up to 200  ${\tt J}$ 

#### SMART INTERFACE

Containing all the calibration data

#### **COMPATIBLE STAND**

STAND-S-233

# **SPECIFICATIONS**

## **MEASUREMENT CAPABILITIES**

Maximum average power (continuous)	50 W
Maximum average power (1 minute)	85 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
Power calibration uncertainty <sup>4</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. Including linearity with power.

### MEASUREMENT CAPABILITIES (ENERGY MODE)

MEASOREMENT CALABIETTES (ENERGY MODE)	
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>l</sup>	100 kW/cm <sup>2</sup>
Maximum energy density <sup>2</sup>	1.1 J/cm²

- 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

Convection (heatsink) Cooling





19 mm
W
2H x 76.2W x 73.6D mm
0.48 kg
200331
203355
202637

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