



gentec-

UP19K-110F-H9-D0

Thermal detector for laser power measurement up to 110 W.



PRODUCT FAMILY 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 (45 kW/cm²)

COMPACT DESIGN

Only 20.6 mm thick (15S model)

ENERGY MODE

Measure single shot energy up to 15 J

SMART INTERFACE

COMPATIBLE STAND

Containing all the calibration data

STAND-S-233

SPECIFICATIONS

MEASUREMENT CAPABILITIES

MER BOREMENT ON TREETES	
Maximum average power (continuous)	110 W
Maximum average power (1 minute)	150 W
Noise equivalent power ¹	3 mW
Spectral range ²	0.193 - 20 µm
Typical rise time ³	1.5 s
Power calibration uncertainty ⁴	±2.5 %
Repeatability	±0.5 %
1 Nominal value, actual value depends on electrical noise in the measurement system	

1. Nominal value, actual value depends on electrical noise in the measurement system.

For the calibrated spectral range, see the user manual.
With anticipation.

4. Including linearity with power.

MEASUREMENT CAPABILITIES (ENERGY MODE)

Maximum measurable energy ¹	25 J
Noise equivalent energy ²	0.06 J
Minimum repetition period	4 s
Maximum pulse width	88 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 density¹

Maximum energy density²

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

45 kW/cm²

1 J/cm²





Instrument Expert Original factory packaging www.dorgean.com

Aperture diameter	19 mm
Absorber	Н9
Dimensions	50H x 50W x 63D mm
Weight	0.25 kg
ORDERING INFORMATION	
UP19K-110F-H9-D0	200994B
UP19K-110F-H9-INT-D0	202623B
UP19K-110F-H9-IDR-D0	203332
UP19K-110F-H9-BLU-D0	203631B

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