

## UP55N-40S-H9-D0

Thermal detector for laser power measurement up to 40 W.



#### PRODUCT FAMILY KEY FEATURES

#### MODULAR CONCEPT

Increase the power capability of your detector: 4 different cooling modules

### HIGH PERFORMANCE

- Fast Rise Time (2 sec)
- High Damage Threshold (45 kW/cm<sup>2</sup>)

## **COMPACT DESIGN** Only 32 mm thick (40S model)

ENERGY MODE Measure single shot energy up to 200 J

### SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-S-443

## **SPECIFICATIONS**

Maximum average power (continuous)	40 W
Maximum average power (1 minute)	80 W
Noise equivalent power <sup>1</sup>	5 mW
Spectral range <sup>2</sup>	0.193 - 20 µm
Typical rise time <sup>3</sup>	2 s
Power calibration uncertainty <sup>4</sup>	±2.5 %
Repeatability	±0.5 %
<ol> <li>Nominal value, actual value depends on electrical noise in the measurement system.</li> <li>For the calibrated spectral range, see the user manual.</li> <li>With anticipation.</li> <li>Including linearity with power.</li> </ol> MEASUREMENT CAPABILITIES (ENERGY MODE)	
Maximum measurable energy <sup>1</sup>	200 J
Noise equivalent energy <sup>2</sup>	0.25 J
Minimum repetition period	11.1 s
Maximum pulse width	433 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	

Maximum average power density <sup>1</sup>	45 kW/cm <sup>2</sup>
Maximum energy density <sup>2</sup>	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. 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

Aperture diameter	55 mm
Absorber	Н9
Dimensions	89H x 89W x 35D mm
Weight	0.62 kg
ORDERING INFORMATION	
UP55N-40S-H9-D0	200215
UP55N-40S-H9-IDR-D0	203387
UP55N-40S-H9-INT-D0	202627
UP55N-40S-H9-BLU-D0	203432

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

# **INTERESTED IN THIS PRODUCT?**



Find your local sales representative at gentec-eo.com/contact-us