

QE12LP-H-MB-D0

Pyroelectric detector for laser energy measurement up to 0.85 J.



KEY FEATURES

MODULAR CONCEPT

Increase the power capability of your detector: 2 different cooling modules

LOW NOISE LEVEL

0.7 μ J for the MB coating

QED ATTENUATOR AVAILABLE

Measure up to 5X higher energies. Available with optional calibration, all wavelengths between 532 & 1064 nm, or single wavelength. [Read more.](#)

HIGH REPETITION RATE OPTIONS

- QE12HR-MB: 1 000 Hz
- QE12HR-MT: 10 000 Hz

TEST TARGET INCLUDED

With the MB models

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

[STAND-D-233](#)

SPECIFICATIONS

MEASUREMENT CAPABILITIES

| | |
|---|--------------------|
| Spectral range ¹ | 0.193 - 20 μ m |
| Typical rise time | 550 μ s |
| Repeatability | <0.5% |
| Maximum repetition frequency ² | 300 Hz |
| Typical energy sensitivity | 60 V/J |
| Maximum measurable energy ³ | 0.85 J |
| Noise equivalent energy ⁴ | 0.7 μ J |
| Maximum pulse width | 400 μ s |
| Energy calibration uncertainty | \pm 3 % |

1. For the calibrated spectral range, see the user manual.
2. May be limited by the display or PC interface. Please refer to the corresponding user manual.
3. At 1064 nm, 7 ns, 10 Hz. Increasing pulse width increases maximum measurable energy.
4. Nominal value. Actual value depends on electrical noise in the measurement system.

DAMAGE THRESHOLDS

| | |
|--|-----------------------|
| Maximum average power density ¹ | 10 W/cm ² |
| Maximum energy density ² | 0.6 J/cm ² |
| Maximum power | 5 W |

1. May vary with wavelength and average power.
2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width.

PHYSICAL CHARACTERISTICS

| | |
|-----------------|-----------------------|
| Cooling | Convection (heatsink) |
| Aperture width | 12 mm |
| Aperture height | 12 mm |
| Absorber | MB |
| Dimensions | 36H x 36W x 33D mm |

Weight

0.12 kg

ORDERING INFORMATION

| | |
|--------------------|--------|
| QE12LP-H-MB-D0 | 200528 |
| QE12LP-H-MB-INE-D0 | |
| QE12LP-H-MB-IDR-D0 | 203250 |
| QE12LP-H-MB-INT-D0 | 202720 |

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