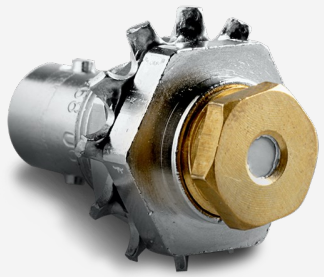
QE4SP-S-MT-D0

Pyroelectric detector for laser energy measurement up to 0.043 J.



PRODUCT FAMILY KEY FEATURES

CUSTOM-BUILT

Contact us with your requirements for a version tailored to your needs

OUR SMALLEST ENERGY DETECTOR

Slightly larger than a BNC connector

LOW NOISE LEVEL

Only 1 µJ noise (with the MT absorber)

FAST RESPONSE

Measure all pulses at up to 6000 Hz

BNC-MOUNTED

For direct reading with an oscilloscope

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Spectral range[1]	0.193 - 20 µm
Typical rise time	20 µs
Repeatability	<0.5%
Maximum repetition frequency	6000 Hz
Typical energy sensitivity	200 V/J
Maximum measurable energy[2]	0.043 J
Noise equivalent energy[3]	1 µJ
Maximum pulse width	10 µs
Energy calibration uncertainty	±4 %

1. For the calibrated spectral range, see the user manual.
2. At 1064 nm, 7 ns, 10 Hz. Increasing pulse width increases maximum measurable energy.
3. Nominal value. Actual value depends on electrical noise in the measurement system.

DAMAGE THRESHOLDS

Maximum average power density[1]	10 W/cm²
Maximum energy density[2]	0.4 J/cm²
Maximum power	0.3 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
Aperture diameter	3.7 mm
Absorber	MT
Dimensions	20H x 17.5W x 30D mm
Weight	0.02 kg

ORDERING INFORMATION

QE4SP-S-MT-D0

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