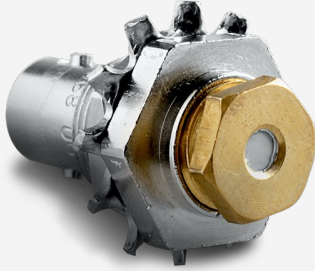


QE4SP-S-MT-D0

Pyroelectric detector for laser energy measurement up to 0.043 J.



PRODUCT FAMILY KEY FEATURES

OUR SMALLEST ENERGY DETECTOR

Slightly larger than a BNC connector

LOW NOISE LEVEL

Only 1 μ J 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 μ m
Typical rise time	20 μ s
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 μ J
Maximum pulse width	10 μ s
Energy calibration uncertainty	\pm 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/cm ²
Maximum energy density ²	0.4 J/cm ²
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

INTERESTED IN THIS PRODUCT?

GET A QUOTE

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