



## M6-12.5-PY

Ultrafast joulemeter for laser energy measurement up to 20 mJ.



### PRODUCT FAMILY KEY FEATURES

**UP TO 200 KHZ PULSE-TO-PULSE**

Measure every pulse, with no sampling, at high rep rates, up to 200 kHz

**CAPTURE AND STORE UP TO 4 MILLION PULSES**

Store 40 seconds of data at 100 kHz

**TRACK MISSING PULSES AND PULSES BELOW THRESHOLD**

Know how many pulses were missed or that didn't make the energy threshold with this unique pulse feature

**SEVERAL HEADS TO CHOOSE FROM**

Silicon, InGaAs and pyroelectric heads for a broad wavelength and energy range

**ANALOG MODULE AVAILABLE**

Use our fast [M6 detectors](#) with the APM (LEMO) and an oscilloscope for fast analog energy measurements

**FULL-SPEED USB 2.0 CONNECTION**

Ensures high data rate transfer and fast operation

**USER-FRIENDLY SOFTWARE WITH MANY DIAGNOSTIC FEATURES**

- Live mode, strip chart, histogram and statistics displays
- FFT display of pulse energy data for temporal diagnostics
- Life test mode to automate laser testing

**COMPATIBLE STAND**

[STAND-D-233](#)



## SPECIFICATIONS

### MEASUREMENT CAPABILITIES

Spectral range	0.35 - 2.5 μm
Typical rise time	150 ns
Repeatability	±1 %
Maximum repetition frequency	200000 Hz
Maximum measurable energy <sup>1</sup>	20 mJ
Noise equivalent energy	0.5 μJ
Maximum pulse width	100 ns
Energy calibration uncertainty	±4 %

1. Maximum pulse energy reading will vary with wavelength and probe voltage responsivity. For more details, please read Application Note 121D-201932 and contact us at [info@gentec-eo.com](mailto:info@gentec-eo.com)

### DAMAGE THRESHOLDS

Maximum power	25 W
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### PHYSICAL CHARACTERISTICS

Aperture diameter	12.5 mm
Absorber	Pyroelectric
Dimensions	76H x 111W x 76D
Weight	0.15 kg

### ORDERING INFORMATION

M6-12.5-PY	202120
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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](http://gentec-eo.com/contact-us)