

QE-B

50 nJ - 200 mJ, For Analog or Digital Module



APM Module

KEY FEATURES

- 1 Use with Analog or Digital Module**
Each head can be connected to an oscilloscope using the analog power module (APM) or to a PC with the digital power module (DPM)
 - DPM: USB Powered Digital Module (Includes Application Software)
 - APM: Battery or AC Powered Analog Module
- 2 Measure at up to 40 000 Hz**
With the chromium coated (MT) versions, using the analog power module (APM)
- 3 2 Sizes Available for Each Coating (MT and BL)**
 - QE8SP-B: 8 x 8 mm pyroelectric sensor
 - QE23SP-B: 23 mm Ø pyroelectric sensor

AVAILABLE MODELS



QE8SP-B-MT
(8 mm-Chromium)

QE8SP-B-BL
(8 mm-Organic Black)

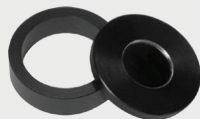
QE23SP-B-MT
(23 mm-Chromium)

QE23SP-B-BL
(23 mm-Organic Black)

ACCESSORIES



Stand with Delrin Post



Removable IR Windows
(Various types available)



Pelican Carrying Case

SEE ALSO

TECHNICAL DRAWINGS	58
COMPATIBLE MODULES	
APM	30
DPM	30



QE-B

SPECIFICATIONS



Approved or in the process of being approved*

MODELS	QE8SP-B-BL	QE8SP-B-MT	QE23SP-B-BL	QE23SP-B-MT
MAX ENERGY	20 mJ	20 mJ	200 mJ	200 mJ
EFFECTIVE APERTURE	7.8 x 7.8 mm	7.8 x 7.8 mm	23 mm Ø	23 mm Ø
COMPATIBLE MODULE(S)	APM and DPM	APM and DPM	APM and DPM	APM and DPM

MEASUREMENT CAPABILITY	With APM	With DPM	With APM	With DPM	With APM	With DPM	With APM	With DPM	
	Spectral Range	0.1 - 1000 µm		0.1 - 1000 µm		0.1 - 1000 µm		0.1 - 1000 µm	
Max Measurable Energy	20 mJ		20 mJ		200 mJ		200 mJ		
Noise Equivalent Energy	100 nJ	50 nJ	100 nJ	50 nJ	500 nJ	100 nJ	500 nJ	100 nJ	
Rise Time (0-100%)	15 µs		15 µs		30 µs		15 µs		
Max Repetition Rate	400 Hz	400 Hz	> 40 000 Hz	1000 Hz	400 Hz	400 Hz	40 000 Hz	1000 Hz	
Max Pulse Width	10 µs		10 µs		30 µs		10 µs		
Sensitivity	1200 V/J	N/A	1200 V/J	N/A	100 V/J	N/A	100 V/J	N/A	
Calibration Uncertainty	± 3.0%		± 3.0%		± 3.0%		± 3.0%		
Repeatability	± 0.5%		± 0.5%		± 0.5%		± 0.5%		
DAMAGE THRESHOLDS	Max Average Power	0.5 W		0.5 W		15 W		15 W	
	Max Avg Power Density (@ 1.064 µm)	1 W/cm ²		1 W/cm ²		N/A		N/A	
	Max En. Dens.: 1064 nm, 7 ns, 10 Hz	50 mJ/cm ²		50 mJ/cm ²		50 mJ/cm ²		50 mJ/cm ²	
PHYSICAL CHARACTERISTICS	Effective Aperture	7.8 x 7.8 mm		7.8 x 7.8 mm		23 mm Ø		23 mm Ø	
	Sensor	Pyroelectric		Pyroelectric		Pyroelectric		Pyroelectric	
	Absorber	BL		MT		BL		MT	
	Dimensions	38.1 Ø X 26.2D mm		38.1 Ø X 26.2D mm		63.5 Ø X 33.8D mm		63.5 Ø X 33.8D mm	
	Weight	80 g		80 g		227 g		227 g	
ORDERING INFORMATION	Full Product Name	QE8SP-B-BL	QE8SP-B-MT-BNC	QE8SP-B-MT-USB	QE23SP-B-BL	QE23SP-B-MT-BNC	QE23SP-B-MT-USB		
	Product Number	201514	201796	201511	201510	201797	201509		

Specifications are subject to change without notice

* For details, contact your Gentec-EO representative