

# QPM SERIES



20 to 65 mm Ø, 50 W - 10 kW, Quick Power Meter



Monitors

Energy Detectors

Power Detectors

OEM Detectors

Calorimeters

Diffractive Optics

Beam Diagnostics



QPM Low-Mid Power



QPM High Power



## Key Features

- 1 **High Damage Threshold**  
Maximum Average Power Density of 2.6 kW/cm<sup>2</sup> (QPM-1.5K)
- 2 **Quick Measurements**  
Unique design allows for fast automatic measurements without forced cooling
- 3 **Choice of Calibration**  
Calibration wavelengths available:
  - . CO<sub>2</sub>
  - . YAG
  - . Laser Diode
- 4 **Integrated Digital Meter**  
Large LCD display with single button operation

### See also

- . Calibration .....6

## Accessories







### » Pelican Carrying Case

We offer a robust hard shell polymer carrying case.



## QPM SERIES

## SPECIFICATIONS

Models	QPM-50	QPM-200	QPM-500	QPM-1.5K	QPM-5K	QPM-10K
						
Max Average Power	50 W	200 W	500 W	1.5 kW	5 kW	10 kW

MEASUREMENT CAPABILITY	QPM-50	QPM-200	QPM-500	QPM-1.5K	QPM-5K	QPM-10K
Spectral Range	0.25 – 11 $\mu\text{m}$	0.25 – 11 $\mu\text{m}$	0.25 – 11 $\mu\text{m}$	0.25 – 11 $\mu\text{m}$	0.25 – 11 $\mu\text{m}$	0.25 – 11 $\mu\text{m}$
Calibration Wavelengths	CO <sub>2</sub> , YAG	CO <sub>2</sub> , YAG	CO <sub>2</sub> , YAG	CO <sub>2</sub> , YAG, Laser Diode	CO <sub>2</sub> , YAG, Laser Diode	CO <sub>2</sub> , YAG, Laser Diode
Maximum Measurable Power	50 W	200 W	500 W	1.5 kW	5 kW	10 kW
Noise Equivalent Power	0.5 W	2 W	5 W	30 W	100 W	200 W
Response Time (Full power scale)	4 sec	4 sec	4 sec	10 sec	10 sec	10 sec
Calibration Uncertainty	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 4\%$	$\pm 4\%$	$\pm 4\%$
Resolution	0.01 W	0.1 W	0.1 W	1 W	1 W	1 W

## DAMAGE THRESHOLDS

Maximum Average Power Density <sup>a</sup>	2.5 kW/cm <sup>2</sup>	2.5 kW/cm <sup>2</sup>	2.5 kW/cm <sup>2</sup>	2.6 kW/cm <sup>2</sup>	1.9 kW/cm <sup>2</sup>	1.5 kW/cm <sup>2</sup>
Maximum allowable Absorber Temp.	70 °C	70 °C	70 °C	150 °C	150 °C	150 °C

## GENERAL SPECIFICATIONS

Digital Display	45 x 25 mm
Battery Type	2 x AA batteries, 3.0 V
Battery Life	200 hours
Operating Temperature Range	10 to 40 °C
Storage Temperature Range	-10 to 60 °C

## PHYSICAL CHARACTERISTICS

Effective Aperture Diameter	20 mm $\emptyset$	20 mm $\emptyset$	25 mm $\emptyset$	40 mm $\emptyset$	55 mm $\emptyset$	65 mm $\emptyset$
Absorber	Flat	Flat	Flat	Flat	Conical	Conical
Dimensions (Sensor Head)	56 $\emptyset$ x 20D mm	56 $\emptyset$ x 25D mm	66 $\emptyset$ x 30D mm	300H x 50D x 35W mm	310H x 75D x 65W mm	320H x 90D x 75W mm
Dimensions (Monitor)	88H x 71D x 40W mm	88H x 71D x 40W mm	88H x 71D x 40W mm	N/A	N/A	N/A
Weight	0.51 kg	0.54 kg	0.62 kg	0.48 kg	0.95 kg	1.3 kg

## ORDERING INFORMATION

Full Product Name	QPM-50	QPM-200	QPM-500	QPM-1.5K	QPM-5K	QPM-10K
Product Number	200267	200268	200269	200270	200271	200272

a. At full scale, CO<sub>2</sub> wavelength.

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United States  
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### Calibration Centers

Quebec City, Canada  
Olching (Munich), Germany