

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/cm² (QPM-1.5K)
- 2 **Quick Measurements**
Unique design allows for fast automatic measurements without forced cooling
- 3 **Choice of Calibration**
Calibration wavelengths available:
 - . CO₂
 - . YAG
 - . Laser Diode
- 4 **Integrated Digital Meter**
Large LCD display with single button operation

See also

- . Calibration6

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 μm	0.25 – 11 μm	0.25 – 11 μm	0.25 – 11 μm	0.25 – 11 μm	0.25 – 11 μm
Calibration Wavelengths	CO ₂ , YAG	CO ₂ , YAG	CO ₂ , YAG	CO ₂ , YAG, Laser Diode	CO ₂ , YAG, Laser Diode	CO ₂ , 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	±3 %	±3 %	±3 %	±4 %	±4 %	±4 %
Resolution	0.01 W	0.1 W	0.1 W	1 W	1 W	1 W

DAMAGE THRESHOLDS

Maximum Average Power Density ^a	2.5 kW/cm ²	2.5 kW/cm ²	2.5 kW/cm ²	2.6 kW/cm ²	1.9 kW/cm ²	1.5 kW/cm ²
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, CO₂ wavelength.

Specifications are subject to change without notice