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PTS-FOPM Series

Fiber Optic Power Meter Modules

Key Features

- *Direct fiber input for fiber optic component measurements*
- *Single and dual-channel versions offered*
- *Three modules cover 400–1800 nm wavelength range*
- *Measurement range from -100 to +3 dBm*
- *Analog output for connection to external instruments*
- *Available with variety of fiber connector styles*

Accessories

Please see the Fiber Optics and Accessories Section for fiber optic patchcords, adaptors, and many more accessories that can be used with these modules.

Order example: PTS-FOPM-SL0265

Dual-channel Fiber Optic Power Meter Module with Silicon detector, operating in the 400–1100 nm wavelength range, and SC/PC connector input.



The PTS-FOPM Series Fiber Optic Power Meters accept a direct fiber input to acquire power measurements in the 400–1800 nm wavelength range. Both single and dual-channel versions are offered, with five different input connector options to select from.

The low-noise 300 µm diameter detector and eight gain ranges, enable continuous power measurements from a low -100 dBm up to 3 dBm (2 mW).

Each module is individually calibrated to NIST-traceable standards using Newport's in-house calibration facility. Calibration data is taken in 10 nm increments, and electronically stored inside the module, resulting in accurate power measurements over the entire wavelength band.

A certificate of calibration as well as the actual calibration curves recorded are shipped with each module. Annual re-calibration is recommended to assure measurement accuracy.

Specifications

Option Code	SL	IR	IG
Module Type	Si	Ge	InGaAs
Active Diameter (µm)		1000	
Wavelength (nm)	400–1100	780–1800	800–1650
Power Input Range	-100 to +3 dBm (100fW - 2mW)	-80 to +3 dBm (10pW - 2mW)	-100 to +3 dBm (100fW - 2mW)
Accuracy		±5%	
Linearity		±0.5%	
NEP @ 5 Hz and 1 A/W (fW/√Hz)	20	1	10
Dimensions (H x W x D) [in. (cm)]		5.23 (13.3) x 1.39 (3.5) x 9.09 (23.1)	
Weight [lb (kg)]		1.75 (0.8)	
Operating Temperature		0°C to 40°C	
Storage Temperature		-20°C to 60°C	

Ordering Information

When ordering a Fiber Optic Power Meter Module, please specify the following Model number:

PTS-FOPM-□□ □□ □□

- Detector Code (See specification table)
- Number of Channels: 01, 02
- Connector Input Style: 25–ST/PC, 45–FC/PC, 55–FC/APC, 65–SC/PC, 75–SC/APC

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