

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.



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	$\pm 5\%$		
Linearity	$\pm 0.5\%$		
NEP @ 5 Hz and 1 A/W (fW/ $\sqrt{\text{Hz}}$)	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:

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.

