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PTS-OPM Series

Optical Power Meter Modules

Key Features

- *Free-space and fiber optic measurements*
- *Compatible with all of Newport's low-power 818 Series, semiconductor detectors, including 818-IS-1 integrating sphere based systems*
- *Wide power range—from 1 pW up to 2 W (-90 to +33 dBm)*
- *Wide wavelength range—190 nm to 1800 nm*
- *Analog output for connection to external instruments*



The PTS-OPM Series Optical Power Meter Modules give the Model 8800 and 8200 Photonics Test System mainframes the utility of a benchtop optical power meter along with the convenience of a modular platform.

Single and dual-channel versions of this module are available, featuring an analog output for monitoring the detector input directly with an oscilloscope or volt meter.

The **PTS-OPM** modules utilize any one of Newport's new **918 Series** low-power, semiconductor detectors.

This makes these meters extremely versatile for measuring free-space and fiber optic lights sources, with power levels from 1 pW (-90 dBm) up to 2 W (+33 dBm), and wavelengths in the 190 nm to 1800 nm regime. The modules are also backward compatible with Newport's full range of **818 Series** detectors, using the **818-ADAPT-OPM** adaptor cable (requires a calibration module).

The optical power meter modules are individually calibrated using NIST traceable, precision current sources, and are shipped with a certificate of calibration.

Ordering Information

Model	Module Type
PTS-OPM-1	Single-Channel
PTS-OPM-2	Dual-Channel

Specifications

Model	PTS-OPM-1	PTS-OPM-2
Module Type	Single-Channel	Dual-Channel
Signal Ranges	Up to 8 decades (detector dependent)	
Auto-Ranging Time (typ)	200 ms	
Maximum Detector Input Current (mA)	5	
Analog Output (into 1 MΩ)	0–2 V	
DC Accuracy	<±2 %	
Detector Input	14-pin circular connector	
Connector, Analog Output	Mini-SMA	
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	

Module/Detector System Specifications

Detector Model	918-UV/818-UV	918-SL/818-SL	918-IR/818-IR	918-IG/818-IG	818-IS-1
Material	Silicon	Silicon	Germanium	Indium Gallium Arsenide	InGaAs/Si
Active Diameter (cm)	1.13	1.13	0.3	0.3	
Wavelength (nm)	190–1100	400–1100	780–1800	800–1650	400–1650
Power Range (dBm)	-83 to +23	-90 to +33	-70 to +21.5	-90 to +21.5	-70 to +23
Accuracy (w/o attenuator)	±2%	±2%	±3%	±2%	±2.5%
Linearity (%)	0.5%	0.5%	±0.5%	±0.5%	±0.5%
NEP @ 5 Hz and 1 A/W (fW/√Hz)	50	50	4	30	3[1]

1) 0.01 A/W for the 818-IS-1

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