Optical Channel Power Monitor/ Meter

-65dB, 350–2600 nm, up to 160 Channels, tap option, mode fill measurement option

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The OCPM Series Optical Channel Power Monitor is designed to provide high-performance optical power monitoring with a large channel count, excellent detection sensitivity uniformity, high measurement accuracy, a wide dynamic range, and a cost-effective design. The system offers exceptional flexibility with configurations for both direct detection, which provides maximum sensitivity, and tap monitoring for in-line pass-through applications. For multimode fiber applications, the OCPM offers an optional Mode Fill measurement capability using Coupled Power Ratio (CPR). Because multimode optical power measurements are highly dependent on launch conditions and mode fill, measuring the CPR together with optical power provides measurement repeatability and consistency. Its fully passive optical architecture enables signal monitoring without affecting the transmitted signal and supports optical signals with bandwidths up to 100 GHz. The OCPM Series is available in 1U, 2U, 4U, and 6U rack-mount platforms to accommodate a wide range of channel counts and system requirements. It supports USB and RS-232 communication interfaces and includes an intuitive graphical user interface (GUI) for simple operation, monitoring, and system control. In addition to in-line network monitoring, the OCPM Series can also be used as a high-performance laboratory optical power meter for test and measurement applications. Custom hardware and software configurations are available to meet specific customer and application requirements.

Features

- High Accuracy
- Large Range
- Low Cost
- Ease of Use
- Net Ready

Specifications

Parameter	Min	Typical	Max	Unit
Center Wavelength	350		2600	nm
Bandwidth		± 60		nm
Power Monitoring Accuracy			± 0.25	dB
Power Measurement Range	-50		20	dBm
Insertion Loss			1	dB
Channel Crosstalk	55		80	dB
Power Consumption			2	W
Operating Temperature	-10		50	°C
Storage Temperature	-45		85	°C
Humidity	5-95		(no condensation)	%
Interface	USB	RS232	Ethernet	
Package		1-4 U Rack		

Applications

- Laboratory Uses
- Testing
- Net Management

RoHS COMPLIANT

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Ordering Information (Part Number)

	☐☐☐	☐	☐	☐☐	☐	☐	☐
Prefix	**Channel Number**	**Configuration**	**Test Wavelength**	**Fiber Type**	**Interface**	**Type**	**Connector**
OCPM-	4 = 004 8 = 008 12 = 012 126 = 126	Detection = D Tap Monitor = T Power/CRP [1] = M	488 nm = 4 360 nm = A 430 nm = B 532 nm = 5 630 nm = 6 780 nm = 7 850 nm = 8 980 nm = 9 1060 nm = 1 1310 nm = 3 1550 nm = C 2000 nm = 2 2.3-4.1 µm = F 3.2-5.5 µm = G	***Pick from below table to match the wavelength range***	USB = U RS232 = 2 Ethernet = E	Standard = 1 Special = 0	FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC/PC = 7 LC/APC = A LC/UPC = U Special = 0 FC/PC = 2 FC/APC = 3

[1]. Transparent: Light passes through without activation. Opaque: Light is blocked in the non-activated state.

Fiber Type Selection Table:

01	**SMF-28**	34	**PM1550**	71	**MM 50/125µm**
02	**SMF-28e**	35	**PM1950**	72	**MM 62.5µm**
03	**Corning XB**	36	**PM1310**	73	**105/125µm**
04	**SM450**	37	**PM400**	74	**FG105LCA**
05	**SM1950**	38	**PM480**	75	**FG50LGA**
06	**SM600**	39	**PM630**	76	**STP 50/125**
07	**780HP**	40	**PM850**	77	**IRZS23**
08	**SM800**	41	**PM980**	78	**IRZS32**
09	**Hi980**	42	**PM780**	79	
10	**Hi1060**	43		80	
11	**SM400**	44	**PM405**	81	**UV180nm**
12		45	**PM460**	82	**LMA-PM-10**
13		46			

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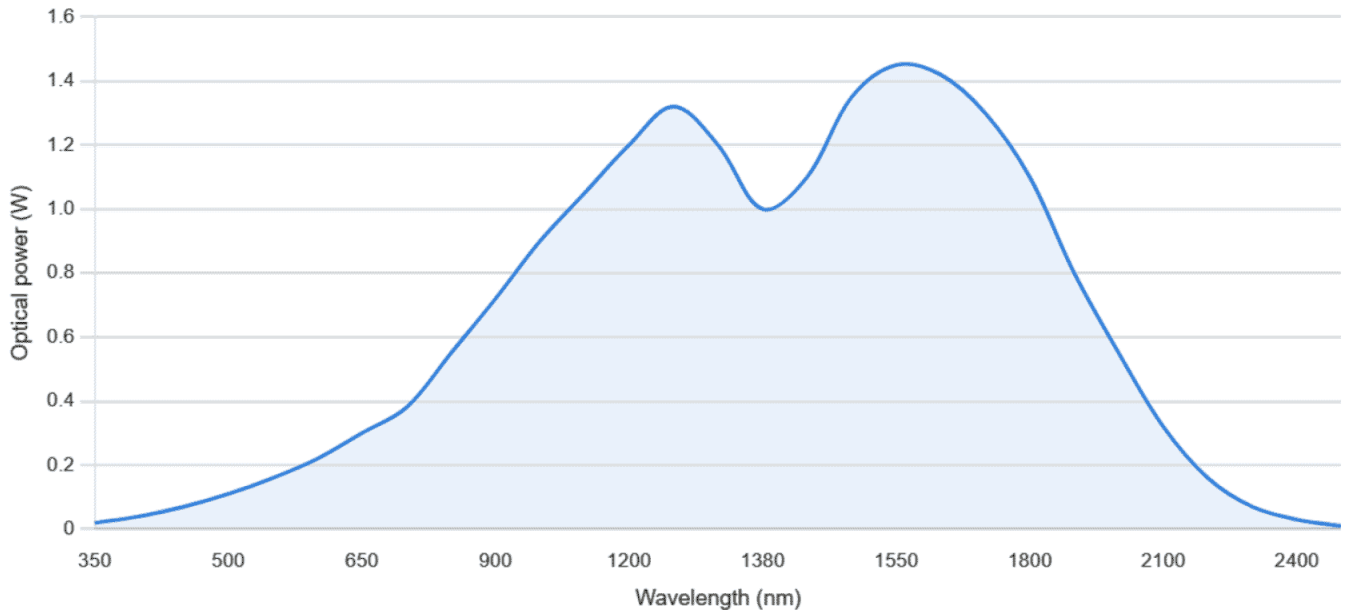
Regular Single Mode / Polarization Maintaining Fiber Optical Power Handing vs Wavelength



Single mode fiber optical power is limited by nonlinear effects in addition to absorption that increase loss and generate heat. The curve shows the approximate safe CW power envelope for standard single-mode fiber. Actual limits depend on fiber design, core size, length, and laser characteristics. Specialty fibers can significantly increase the power limit.

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