

Optical Channel Power Monitor/ Meter

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



DATASHEET

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Features

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

Applications

- Laboratory Uses
- Testing
- Net Management



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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.

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		

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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	<i>Pick from below table to match the wavelength range</i>	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			