WESTERN OPTRONICS



OPM Series

Multi-channel Optical Power Meter

The Western Optronics OPM Series is a compact multichannel optical power meter for AC/DC average optical power measurement. Available with 4, 8, 12 or 16 channels, it replaces multiple single-channel or dual-channel meters in parallel test setups. A 640 × 480 color LCD displays all channels simultaneously. RS232 is standard, with optional GPIB or Ethernet interfaces for automated test systems.



WEOG OPM-16 shown

Product Selection

Model	Channels	Instrument type
OPM-4	4	Benchtop optical power meter
OPM-8	8	Benchtop optical power meter
OPM-12	12	Benchtop optical power meter
OPM-16	16	Benchtop optical power meter

Features

- Low repeatability error.
- Wide measurement range: down to -80 dBm with Version 1; up to +20 dBm with Version 2.
- RS232 standard; GPIB or LAN optional.
- Multiple calibration wavelengths and custom calibration wavelengths.
- Independent wavelength setting for each channel.
- Sample PC control software for automated testing.

Applications

- Testing active devices, optical modules and optical modems.
- Testing insertion loss, return loss and isolation of passive devices.
- Test-system calibration.
- Optical power meter calibration.

WESTERN OPTRONICS



OPM Series

Multi-channel Optical Power Meter

Technical Specifications

Parameter	Specification
Calibration wavelengths	850, 1310, 1490 and 1550 nm; customization available
Power range - Version 1 [1]	1310 / 1490 / 1550 nm: -80 to +10 dBm 850 nm: -60 to +10 dBm
Power range - Version 2 [1]	1310 / 1490 / 1550 nm: -60 to +20 dBm 850 nm: -50 to +20 dBm
Long-wavelength power accuracy [2]	-60 to +7 dBm: ±0.2 dB Other power ranges: ±0.3 dB ±0.03 nW
Long-wavelength channel consistency [2]	-60 to +7 dBm: ±0.1 dB
Optical interface	FC
AC power input	100-240 V AC, 50/60 Hz
Dimensions (L × W × H)	250 × 300 × 120 mm
Display	640 × 480 color LCD; simultaneous channel display
Screen data refresh	4-channel: 43 ms; 16-channel: 88 ms Three speeds selectable from the front panel
Operating conditions [1]	0 to 40°C; ≤90% RH, non-condensing
Warranty	1 year

[1] Power range denotes the measurement display range.

[2] Test conditions: ambient temperature 23°C ±5°C, FC adapter and continuous-wave input. Shield the input from light and perform zeroing before low-light measurements.

Ordering Information

WEOG OPM-N-[OPT 1][OPT 2][OPT 3]

N = 4, 8, 12 or 16 channels. Select one code for each option below.

Option	Code and configuration
OPT 1 Communication	#1 RS232; #2 RS232 + GPIB; #3 RS232 + LAN
OPT 2 Built-in PIN interface	#A FC
OPT 3 Power range	#1 Version 1; #2 Version 2 See wavelength-specific ranges in Technical Specifications.

Western Optronics | sales@westernoptronics.com | www.westernoptronics.com