



Optical Power Meter • MXOPM26-50 Series

Technical Specification



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209-339-2333

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1.0 Product description

With six wavelength calibrating wavelengths (850nm,1300nm,1310nm, 1490nm,1550nm and 1625nm), refined design, easy operation, linearity or non-linearity display, the MXOPM26-50 hand-held optical power meter can be used for direct optical power measurement as well as relative measurement of optical link loss. It is an essential test instrument in Optical Communication systems, CATV systems, construction and maintenance applications and more.

2.0 PRODUCT FEATURES

- Quick response and measurement: It can display fast-tracking and real-time measurement of optical power when output power changes.
- Wide measurement range provides measurements between -50 to +26 dBm of optical power measurement range. High measurement accuracy and display resolution.
- Six calibrated wavelengths: 850nm,1300nm,1310nm, 1490nm,1550nm and 1625nm.
- Provide absolute optical power measurement and relative power measurement.
- Real time monitoring and displaying the battery level Warning notice is available when the battery is low.
- Backlight LCD display, Auto-off function, self-calibration function.

3.0 Main applications

- Various CATV/Data optical applications where the measurement of optical power levels are required
- Optical fiber testing and research
- Teaching and experimenting of optical communications
- Optical fiber communication engineering

4.0 SPECIFICATION

Model		MXOPM26-50	
Connector		FC/PC	
Wavelength Range	(nm)	850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm (800-1650nm)	
Probe Type		InGaAs	
Power measurement range	(dBm)	-50	+26
Calibrating Wavelength No		6	
Accuracy		±5%	
Display Resolution	(s)	Logarithmic display: 0.01dBm	
Preheated Time		0	
Display Unit		dBm/W	
Display Refresh Frequency	(Hz)	3	
Auto Power Off Time	(min.)	Optional	
Battery Operating Endurance Time	(h)	>240	
Work temperature	(°C)	-10 ~ +50	
Storage temperature	(°C)	-25 ~ +70	
Relative Humidity	(%)	0~95 without condensation	
Size		130x66x27mm / 5.07x2.57x1.05 inch	
Weight		160G / 5.6 oz.	
Power supply		(3) AAA 1.5V battery	



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5.0 Quick Start Guide

- Measurement of the power of an optical signal (dBm and W)

Turning Meter On/Off



Press the button to turn unit on.

Press the button and hold for 2 or 3 seconds to turn the meter off.

Wavelength Button



This button is used to select the wavelength. 850nm, 1300nm, 1310nm, 1490nm, 1150nm, and 1625nm. Press the button repeatedly to step through the wavelengths. Simply select to closest wavelength to the one you are measuring for best accuracy.

Measurement Selection Button



This button is used to select either dBm or nW between the absolute and relative measurements of optical power. (mW is milliwatt, or 10^{-3} , nW is nanowatt or 10^{-9} watt).

*Note, most customers will use dBm to measure the absolute power.

Reference Button



Press this button to save the current power value (zero the test setup). This value can be used as a reference and will be displayed in the upper right hand corner of the LCD screen. Pressing this button quickly will switch the function to a relative power measurement. With the reference power value showing, the relative value will now be displayed between the current measurement and the reference power.

Using the Meter for a simple optical power measurement

- (1) Use one fiber optic jumpers to connect the output port of the light source with the detecting port of the fiber power meter.
- (2) Turn on the light source and then select the wavelength to be tested.
- (3) Select (dBm) to measure the absolute optical power.
- (4) The LCD display now shows the actual output power of the light source as shown in the dBm (example: power shown may be 05.73 dBm, or -09.25 dBm).



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