

SERIES 300/400

Power Monitors for Multimode Fiber



EigenLight's Multimode Series 300 Power Monitors and Series 400 Power Monitor-Attenuators are used for in-line monitoring of optical power in multimode fiber. The devices provide continuous readout of optical power on an LCD display allowing convenient measurement in live fiber optic systems and test sets. Series 400 Power Monitor-Attenuators include an integral variable attenuator for fingertip control of optical power levels.

Designed for use with broadband sources such as LEDs, these power monitors feature low modal sensitivity allowing accurate measurement of optical power even under varying launch and fiber handling conditions.

FEATURES

- Absolute or Relative Optical Power Readout
- Optional Analog Output for Data Logging
- Typical Battery Life of 3 Years
- Auto Power On/Off (Light Activated)
- Dual LCD Displays for Easy Viewing
- 20 dB Variable Attenuation
- Available Fiber Types: 50/125, 62.5/125, 100/125

SPECIFICATIONS

Model ¹	MM31xB	MM31xC	MM41xB	MM41xC
Wavelength Range	1250-1600 nm	800-1000 nm	1250-1600 nm	800-100 nm
Power Range	-50 dBm to +16 dBm			
Insertion Loss	<1.5 dB	<1.5 dB	<2.0 dB ²	<2.0 dB ²
Attenuator Range	N/A	N/A	20 dB	20 dB
Directivity ³	0 dB	0 dB	0 dB	0 dB
Absolute Accuracy ⁴	+/- 0.3 dB	+/- 0.3 dB	+/- 0.3 dB	+/- 0.3 dB
Return Loss	>10 dB	>10 dB	>10 dB	>10 dB
Modal Sensitivity ⁵	<1 dB	<1 dB	<1 dB	<1 dB
Calibration Wavelength	1310, 1550 nm	850 nm	1310, 1550 nm	850 nm
Power	4 Lithium Coin Cells (CR2032)			
Battery Life	3 Years Typical (Slow Mode)			
Display Resolution	0.1 dB			
Display Refresh Rate	0.1 Sec/0.8 Sec (Fast/Slow Mode)			
Analog Output Voltage	1 millivolt/dBm (0dBm = 0 millivolt)			
Analog Output Impedance	40 kΩ			
Operating Temperature	0°C to +40°C			
Storage Temperature	-10°C to +60°C			
Relative Humidity	<95% Non Condensing			
Size (Housing Only)	9.5 x 3.7 x 3.6 cm			
Weight	140 grams (5 oz.) with Batteries			
Housing Material	Flame Retardant ABS Plastic			

1. x = fiber type. See ordering information below

2. At minimum attenuator setting

3. Sensitivity to forward directed light relative to backward directed light.

4. Modes completely filled

5. Maximum change in sensitivity from complete mode filling to lowest order mode filling

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POWER MONITOR ACCESSORIES



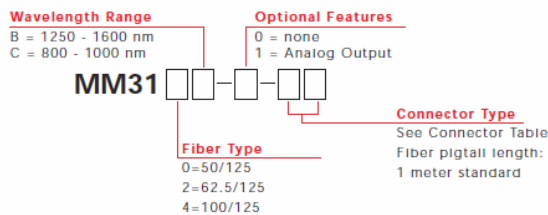
SERIES 300/400 MONITOR MOUNT
Anodized aluminum mount with magnetic base for mounting. Product Code: M3/M4



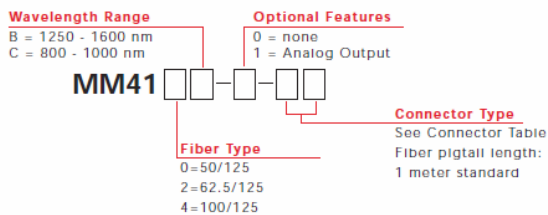
CARRYING CASE
High-impact plastic carrying case for field transport and storage of power monitors and accessories. Product Code: C3

Ordering Information:

Series 300 (Monitor Only)



Series 400 (with Attenuator)



Connectors

Code	Connector Type
10	FC
15	FC/APC
20	ST
25	ST/APC
30	SC
35	SC/APC
40	LC
50	MU
90	Bare Fiber