

# SERIES 300/400

## Power Monitors for Polarization Maintaining Fiber



EigenLight's PM Series 300 Power Monitors and Series 400 Power Monitor-Attenuators are used for in-line monitoring of optical power in polarization maintaining fiber. Featuring high extinction ratio and low insertion loss, these devices allow convenient measurement of optical power 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.

### FEATURES

- Extinction Ratio > 23 dB
- Absolute or relative power readout
- Typical battery life 3 years
- Auto Power On/Off (Light activated)
- Dual LCD displays for easy viewing
- 40 dB Variable attenuation (Series 400)
- Optional Analog output for datalogging
- Available fiber types: Panda 1550, 1310, 980, 850

### SPECIFICATIONS

Model <sup>1</sup>	M31x	M32x	M41x	M42x
Power Range	-50 to +16 dBm	-40 to +26 dBm	-50 to +16 dBm	-40 to +20 dBm
Attenuator Range	N/A	N/A	40 dB	40 dB
Insertion Loss	<0.5 dB	<0.2 dB	<1.5 dB <sup>2</sup>	<1.0 dB <sup>2</sup>
Directivity <sup>3</sup>	>20 dB	>15 dB	>20 dB <sup>2</sup>	>15 dB <sup>2</sup>
Absolute Accuracy	+/- 0.2 dB	+/- 0.2 dB	+/- 0.2 dB	+/- 0.2 dB
Return Loss	>70 dB	>70 dB	>40 dB	>40 dB
Extinction Ratio	>23 dB	>23 dB	>18 dB	>18 dB
Fiber Type/ Calibration Wavelength		x = 2: 1550 nm x = 4: 1310 nm	x = 6: 980 nm x = 8: 850 nm	
Wavelength Range		x = 2: 1540-1620 nm x = 4: 1290-1380 nm	x = 6: 970-1100 nm x = 8: 800-900 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

2. At minimum attenuator setting.

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

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## POWER MONITOR ACCESSORIES



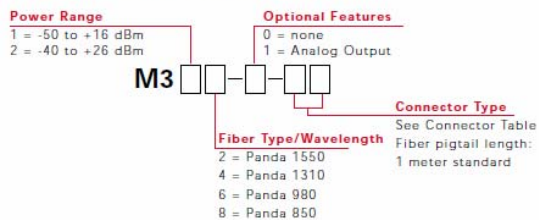
**SERIES 300/400 MONITOR MOUNT**  
Anodized aluminum mount with magnetic base for mounting. Product Code: M3/M4



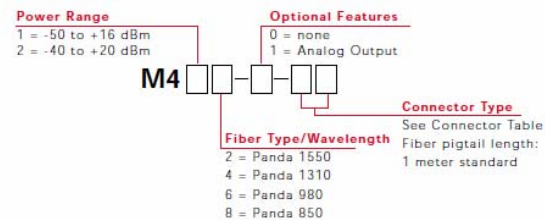
**CARRYING CASE**  
High-impact plastic carrying case for field transport and storage of power monitors and accessories. Product Code: C3

### Ordering Information:

#### Series 300 (Monitor Only)



#### Series 400 (with Attenuator)



#### Connectors<sup>1</sup>

Code	Connector Type
10	FC
15	FC/APC

1. Slow axis alignment standard.

