

Eigenlight Series 500 Inline Optical Power Monitor



Key Features

- ✓ Low Loss in Line Power Monitoring
- ✓ Battery Powered
- ✓ FC/APC In- and Output adaptor
- ✓ Micro USB interface for optional remote readout via API
- ✓ Standard Single Mode fiber compatible (G-652-D)
- ✓ Variants for different wavelengths and optical power ranges
 - ✓ -50dBm to + 16dBm
 - ✓ -40dBm to + 26dBm
 - ✓ 1550nm range
 - ✓ 1310/1480/1550nm range

NeoPhotonics' Eigenlight Series 500 is a low cost and compact instrument for measuring the power of a signal being transmitted through an optical fiber. Unlike conventional power meters, this power monitor can be installed in live systems for real time, continuous power measurement, without compromising system performance.

It features a digital readout of the instantaneous power of a transmitted signal. The device includes a USB port for interfacing with power monitoring software (optional license).

A variable Attenuator Patch Cord accessory provides a compact and simple feature to manually equalize the power of optical signals in fiber optic systems. When mated to a standard connector, the variable attenuator connector causes the optical signal to become attenuated by creating a variable air gap between the connector ferrules. Attenuation is adjusted by means of a self-locking screw mechanism.

Type		M510-	M520-
Fiber Type		Standard Single Mode fiber compatible (G-652-D)	
Insertion Loss excl. connector loss	dB	< 0.5	< 0.2
Power Range		-50 to +16	-40 to +26
Polarization stability	dB		< 0.2
Absolute Accuracy at cal. wavelengths	dB		< 0.2
Directivity @ 1550nm	dB		< 20
Power source		1 Coin Cell (CR2477N), micro-USB	
Battery Life		3 years Typical (slow mode)	
Display Resolution	dB		0.1
Display Refresh Rate	sec	< 0.1 (fast mode) / < 0.8 (slow mode)	
Output Interface		display / micro-USB (License required)	
Operating Temperature	deg C		0 to +40
Storage Temperature	deg C		-10 to +60
Size (housing only)	mm	94.5 x 56.5 x 27	
Weight	Gr		< 100

Ordering Information – Part Number

M5 -00 0 - 15 - 15

Article	Power range	Wavelength range
	10 : -50 to +16dBm	xx : 1550nm
	20 : -40 to +26dBm	12 : 1310/1480/1550nm

Example: M520-00xx0-15-15: -40 to +26dBm range, 1550nm

Optional Accessories

Part Number	Description
VG01-01-15-15	Variable Attenuator Patch Cord
ACC-EL-BATT	Replacement Battery for S500 Monitor, CR2477N

Eigenlight Series Variable Optical Attenuator Patch Cord



The variable Attenuator Patch Cord provides a compact and simple feature to manually equalize the power of optical signals in fiber optic systems. When mated to a standard connector, the variable attenuator connector causes the optical signal to become attenuated by creating a variable air gap between the connector ferrules. Attenuation is adjusted by means of a self-locking screw mechanism. It ideally fits to the S500 In line power monitor series

Specification

Fiber Type Standard Single Mode Fiber compatible (G-652-D)

Insertion Loss excl. connector loss dB 0.5 35

Maximum Input Power dBm +20

Temperature Range °C 0 to +40

Return loss dB > 50

Connector loss dB < 0.5

Wavelength range nm 1300 to 1620

Connector type FC/APC (both ends)

Part number

Part Number	Description
VG01-01-15-15	Variable Attenuator Patch Cord

Contact information

ID Photonics GmbH
Anton-Bruckner-Str. 6
85579 Neubiberg
GERMANY
Tel.: + 49 (0) 89 – 201 899 16

info@id-photonics.com
www.id-photonics.com