

VOA-B



DEVICE

Programmable Benchtop Variable Optical Attenuator

OVERVIEW

The Optilab VOA-B series is a programmable benchtop variable optical attenuator, ideal for general lab testing and various applications such as EDFA amplifier qualification, DWDM system characterization, and loss simulation. The VOA-B has a nominal resolution of 0.1 dB and attenuation range of 30 dB, with the front panel providing an intuitive setting of the desired attenuation value. The large screen LCD displays the input and output power as well as the attenuation level, with the built-in RS232 port allowing for remote control and monitoring. The VOA-B is available in single mode (SM) and polarization maintaining (PM) versions, for increased flexibility and utility, contact Optilab for more information.

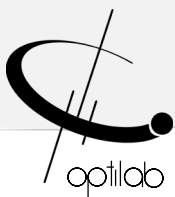
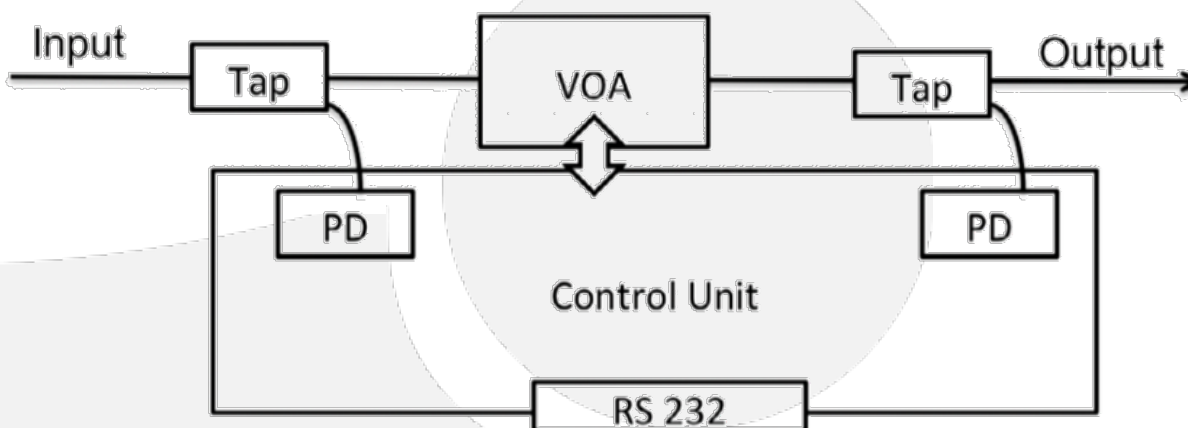
FEATURES

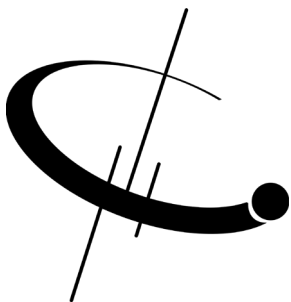
- Side-Mode or Polarization Maintaining
- RS-232 Remote Interface
- Accuracy of +/- 0.2 dB
- +/- 0.1 dB Repeatability
- 0.1 dB Resolution
- 30 dB Range

USE IN

- Loss Simulation in Fiber Optic Links
- EDFA Output Power Characterization
- Power Meter Linearity Calibration
- Precise Optical Power Control
- Analog Transmission Tests
- Bit Error Rate Tests

FUNCTIONAL DIAGRAM





VOA-B

SPECIFICATIONS

Operating Wavelength Range	1200 – 1700 nm
Attenuation Range	30 dB
Resolution	0.1 dB
Repeatability	± 0.1 dB
Change Rate	< 3s
Accuracy	± 0.2 dB
Minimum Attenuation	SM: 2.3 dB typ., PM: 5.0 dB typ.
Remote Communication	RS-232, DB9 Connector
Maximum Optical Input Power	500 mW
Wavelength Dependent Loss Variation (1520 to 1570 nm)	± 0.1 dB
Polarization Dependent Loss	0.1 dB typ.
Optical Connectors	FC/APC or SC/APC
Input Voltage	100 – 240 V AC, 50 -60 Hz
Dimensions	280 mm (W) x 90 mm (H) x 340 mm (D)
Weight	9 lbs
Operating Temperature	0 °C to +40 °C
Temperature Storage	-40 °C to +65 °C
Humidity	85% up to 40 °C

ORDERING OPTIONS

VOA-B-xx-yy

xx PM: Polarization Maintaining
yy FC/AC connectors

VOA ATTENUATION ACCURACY

