

POA Programmable Optical Attenuator



High-precision programmable attenuators are key components to ensure smooth operation of optical communication and optical device testing system. Dimension's POA programmable tunable attenuator, can provide high-accuracy optical path attenuation for multiple channels at the same time, flexible at programming automatic or random attenuation values. It's high attenuation accuracy, wide wavelength range, large attenuation range, fast slew rate conversion speed, excellent performance such as high repeatability /linearity, and excellent ease of use, provide an ideal solution for research institutions and high standard manufacturing enterprises.

Advantages

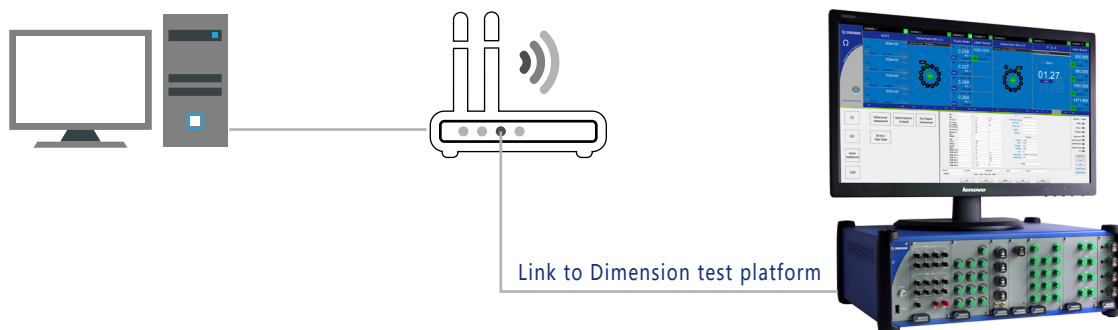
- High accuracy, wide attenuation range (>50dB)
- Low IL(<1dB), excellent transition speed slew rate(25dB/s)
- High repeatability and Linearity
- Programmable, API interface, remote control available
- Support 1~4 four channels attenuation, can OFFSET automatic compensation
- Support full wavelength attenuation, support singlemode/multimode
- Platform + module design, scalable, easy to use
- Optical shutter function, support cascading applications

Main Applications

- Optical module BER test
- Optical active device testing system
- Optical passive device testing system
- Optical network testing
- Research institutions and laboratory application
- Instrument calibration or loss simulation

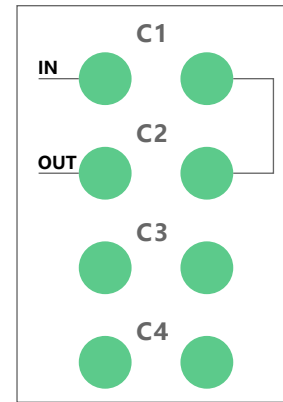
Fully programmable solution, Support Ethernet connection

The POA attenuator could be connected via the network or USB interface, parameters on it could be easily checked. The device attenuation value could be automatically or randomly set by the open API interface programming. By adopting Dimension's universal test platform, one can build an automated test and production environment by integrate light sources, optical power meters, optical switches and other test modules, it's especially suitable automated production lines and other automated test systems.



◀ High integration, high attenuation accuracy, wide attenuation range, and support for cascading function

POA series provide 1.00dB~50dB wide range attenuation, supporting four channels simultaneous attenuation, two-channel cascade the attenuation can higher than 100 dB, minimum attenuation is only 0.01dB. The attenuation range and attenuation accuracy can meet most research institutions and manufacturing requirements.



◀ Wide wavelength range, support arbitrary wavelength attenuation

Support arbitrary wavelength input among singlemode 1250nm~1650nm, multimode 830nm~1350nm. The device has been calibrated for attenuation under different wavelengths, any wavelength among above ranges is verified with accurate attenuation.

◀ Various control modes

Dimension POA series attenuators, support decrement, increment and automatic programming control of fixed attenuation values and time delays, to meet different needs of users. The equipments adopt safe and reliable industrial design for 24/7 operation, not need any additional manual maintenance, it's an ideal equipment for automatic rapid testing systems.

◀ Platform + module design, high scalability

Dimension's universal optical test platform provides a whole set optical test solution, it includes a dual-slot ALPHA test platform and an 11-slot OMEGA test platform, which is compatible with a wide range of functional test modules such as POA dimmable attenuation. This product featured with hot swappable, programmable, and scalable, easy to maintain&manage, with low overall cost. Customers can integrate and expand different functional modules in following-up, such as optical switches, stable light sources, IR/IL testers, BER testers, and high-speed optical power meters, to achieve one-stop test for optical devices and other products' various performances.



OMEGA test platform

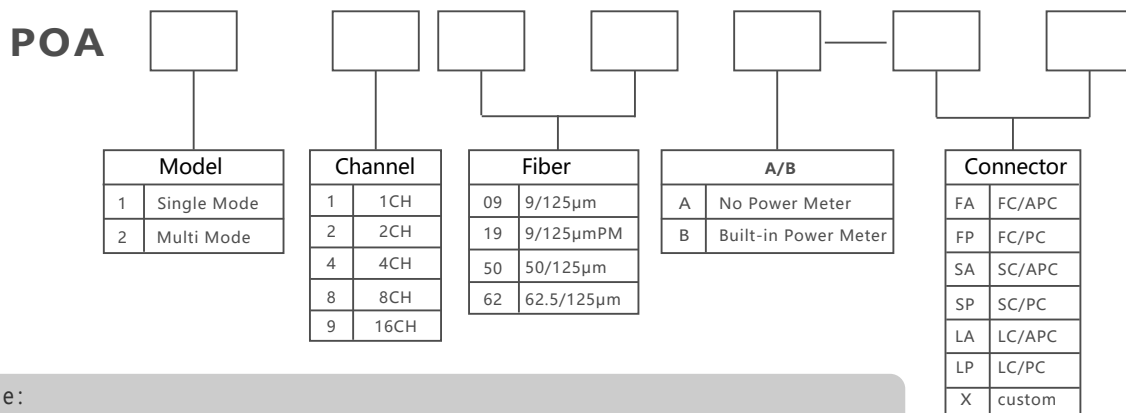


ALPHA test platform

Specifications^[1]

Description	POA1409A-FA	POA2450A-FP	POA2462A-FP
Fiber Type	9/125μm	50/125μm	62.5/125μm
Wavelength Range	1250 ~ 1650nm	830 ~ 1350nm	
Max Attenuation	>50dB		
IL [2]	<1.00dB		
RL [2]	>65dB	>35dB	>35dB
Attenuation resolution	0.01dB		
Lineary	±0.05dB		
Attenuation repeatability	±0.02dB		
Attenuation slew rate	25dB/s		
Max.Input power	23dBm		
Working Temperature	10°C ~ 40°C		
Storage Temperature	-40°C ~ 70°C		
Size	Rack: 359mmX274mmX115mm; 2-slot module: 285mmX133mmX71mm		
Adaptor	AC90 ~ 260V 50Hz		

Ordering Information



Example:

Model: POA1409A-FA 4CH FOA SM 9/125 No built-in Power Meter Connector:FC/APC

[1] Test wavelength:1310 nm/1550 nm for single-mode,850 nm/1300 nm for multimode.

[2] Excluding connectors.

Relate products



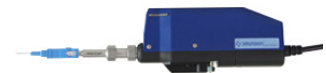
Stable light source



Optical switch



Optical power meter



AutoGet Endface Microscope

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Optical testing solution

