

AT4X2X Series

Multi-Mode Attenuator

Version 5.3

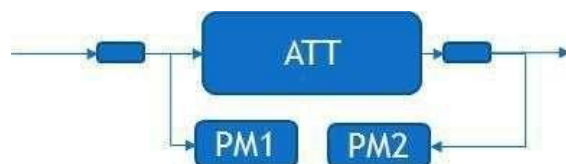


Product Description

AT4X2X series benchtop multi-channel attenuators are a new class of remote controlled fiber optic instruments for optical transceiver and network integration test. High setting speed of attenuation and power as well as power measurement capability, combined with USB, and LAN interfaces provides increased throughput and operational efficiency to meet today's challenges both in R&D and manufacturing.

AT4X2X series attenuators feature both attenuation mode and power control mode. With integrated input and output monitor power-meter, it is the unique tools to combine both attenuator and power-meter in one box.

In attenuation mode, the calibrated value of attenuation in dB can be set. The power control functionality allows you to set the power level at the attenuator output. The instrument uses the feedback signal from a photodiode after a monitor tap, both integrated in the instrument, to set the desired power level at the output of the module.



When the power control mode is enabled, the module automatically corrects for power changes at the input so that the output power level you set is maintained.

Absolute power levels can be set with high accuracy after an initial offset calibration for the uncertainties at connector interfaces.



4 channel multi-mode with power-control

Key Features

- Attenuation range: 0~40 dB
- With power monitor
- Power monitor range: +0~-50 dBm
- Local LCD display
- Remote command control

Benefits & Features

- Compact instrument combines and integrates multiple functions for setting attenuation, monitoring input/output power, feedback loop for power control to reduce CAPEX and floor space
- Fast and precise setting of optical power levels in parallel with settling times of 100 ms (200 ms multimode) for improved throughput
- The multichannel attenuator sets and measures several ports at the same time, saving significant time characterizing multiport and multichannel components and network equipment

- Miniature bulk optics for multimode avoids distortion of modal distribution and assures stability and accurate power monitoring
- Active power control keeps output power constant
- The instrument can be controlled via LAN and USB for remotecontrol
- An easy-to-use and intuitive graphical user interface speeds up the integration process

Technical Specification

	AT4321/2/4/8
Connector type	FC/UPC or FC/APC
Fiber type	50/125 or 62.5/125 μm
Wavelength	850 nm
Attenuation range	0~40 dB
Resolution	0.1 dB
Attenuation accuracy (Typ.)	± 0.2 dB
Settling time (4-channel only)	≤ 350 ms (1 dB step) ≤ 1 s (30 dB step)
Power lock accuracy (Typ.)	± 0.2 dBm
Repeatability	<0.1 dB
Insertion loss	≤ 1.5 dB or ≤ 2.5 dB (with power-control)
Channel number	1, 2, 4 or 8

Power Monitor Range	0~-50 dBm
Power-meter Accuracy	3%
Return Loss	Typ. 25 dB
Maximum safe input power	+23 dBm
Display	Default 3.5-inch TFT
Remote control	LAN, USB

Environmental

Use	In Door
Temperature operating	+10 °C to +40 °C
Operating humidity	15% to 95%, non-condensing
Power	LINE: 85-250VAC, 50/60Hz, 25W FUSE: T2AL 250VAC
Dimensions (D x W x H) mm	266×407×90 (1,2,4 channel) 490×407×140 (8 channel)
Weight	3.0 kg

Ordering Information

Product Number	Description	Option	
AT4321	1 channel multi-mode with power-control	Connector Option	
AT4322	2 channel multi-mode with power-control	21	FC/UPC (default)

AT4324	4 channel multi-mode with power-control	22	FC/APC
AT4328	8 channel multi-mode with power-control		
AT4221	1 channel multi-mode		
AT4222	2 channel multi-mode		
AT4224	4 channel multi-mode		
AT4228	8 channel multi-mode		

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*This information is subject to change without notice.