

PMD4000 / PMD400

Polarisation Mode Dispersion Measurement Systems



Description

The PMD4000 is a unique and complete PMD test solution for fiber and cable manufacturing, combining Interferometric and, optionally, wavelength scanning methods to cover both higher and lower amounts of PMD.

The PMD400 uses only the interferometric method and offers high speed and simple measurements of PMD. The PMD4000 and PMD400 are fully automated and easily interfaced with factory networking systems.

Features

- Integrated Interferometric and wavelength scanning methods (PMD4000)
- Fast, automatic PMD measurements over a wide range of PMD values
- High dynamic range
- Ultra-low PMD measurement option (PMD4000-2 only)
- Full remote control for networked applications
- Fully autoranging

Overview

The PMD4000 uses a combination of two standardised PMD measurement methods for fiber and cable testing to obtain a wide PMD measurement range. The interferometric method enables a fast measurement of moderate to high PMD values, with a high dynamic range, and can trap those fibers that contain sections of high PMD or other defects. However, for modern ultra-low PMD fibers, the PMD4000 can be fitted with the Wavelength Scanning Fourier option to allow measurement of PMD down to 0.03 ps. In addition, the CD437A ultra-low PMD option can extend the range down to 0.003 ps.

PMD4000

Overview (Cont.):

The PMD400 offers the interferometric method alone in the 1550 nm waveband. Both systems consist of a single unit containing sources and detection hardware, controlled by a PC compatible computer operating under Windows 98 or Windows 2000 operating systems.

Outline Specifications

Wavelength	range: 1550 +/- 50 nm ELED source	
	Optional 1310 +/- 50 nm ELED source available	
PMD range:	PMD4000-1, PMD400	0.1 – 80 ps
	PMD4000-2	0.03-80 ps
	PMD4000-2 with CD437A	0.003- 80 ps
Dynamic range:	up to 40 dB (with PMD4000B/1550XHP source)	
Measurement	Time: 15-30 seconds	
Remote control:	fully remotely controllable via RS232 link	
Dimensions:	17"x 6"x 19" (43 x 15 x 49 cm);	
Weight:	42 lb (19 kg) approx.	

Ordering Information

PMD400	operates in 1550 nm window, interferometric method only, including control PC and software
PMD4000-1	operates in 1550 nm window, interferometric method only, including control PC and software
PMD4000-2	operates in 1310 and 1550 nm window, interferometric method and Wavelength scanning method, including control PC and software

Options for PMD4000 only:

PMD4000B/1550 XHP High power 1550 nm source (extends dynamic range to 40 dB)
PMD4000B/1310 XHP High power 1310 nm source (extends dynamic range to 40 dB)
CD437A Ultra-low PMD option (PMD4000-2 only)

Other accessories for all models:

PMD444 ~8ps PMD Checker
PMD445-10 10ps PMD emulator
PMD445-40 40ps PMD emulator
PMD446-0.3 0.3 ps PMD calibrator (PMD4000-2 only)
PMD446-0.9 0.9 ps PMD Calibrator

Please refer to separate calibrators brochure for details.

For more information e-mail us at
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www.perkinelmer.com/opto

PerkinElmer Optoelectronics reserve the right to change or amend specifications and/or configurations at any time without notice.

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