

PMD Analyzer

FTB-5500B



Less than 5-second testing time for any PMD range

No auto-correlation peak, for enhanced accuracy

NIST traceable

Patented design: test through EDFAs



Fiber-optic T&M,
monitoring, manufacturing
and assembly solutions

EXFO

Measuring PMD the Fast Way

PMD represents a significant danger to both legacy and newly deployed networks. And as systems of 10 Gb/s and faster develop, PMD concern and awareness continue to grow. EXFO's FTB-5500B PMD Analyzer helps you get ahead in the field. Whether you need to verify the capacity of legacy fiber or maintain a network, the modular FTB-5500B is fast, reliable, and ready to go.

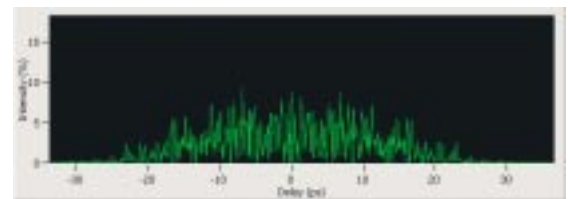


Less than 5-Second Testing Time

The rugged FTB-5500B features a market-leading PMD measurement time of less than five seconds—for any PMD value. Improve your testing efficiency. Reduce testing costs. Test more fiber, and test it faster.

A Unique Approach to Testing Through EDFAs and Removing Auto-correlation Peaks

The FTB-5500B's unique technology allows for both the auto-correlation and cross-correlation to be known. Therefore, any spectral shape of source can be used. The auto-correlation peak is thus removed, and higher accuracy and resolution are obtained. PMD of 0 ps can be measured. In addition, a signal transmitted through EDFAs can be analyzed for total link PMD. Calibration is traceable to NIST.



Key Features

- No auto-correlation peak, for increased accuracy and resolution
- Testing through EDFAs (above 120 EDFAs)
- Under five-second testing time for any range
- Minimum measurable PMD: 0 ps

Field-Proof, Advanced Technology

The FTB-400 UTS Advantage

Housed in the tough, light-magnesium-shell and rubber-bumpered FTB-400 Universal Test System, the FTB-5500B PMD Analyzer will survive knocks, bumps and drops. Combine up to seven single-slot, field-interchangeable modules in the powerful FTB-400 for simultaneous support of multiple testing applications (CD analyzer, OTDR and OLTS, among others).

The FLS-5800 CD/PMD Analyzer Source Advantage

A single light source, the FLS-5800 CD/PMD Analyzer Source, can help you characterize both chromatic dispersion (CD) and polarization mode dispersion (PMD)—reducing testing time and minimizing the potential for human error.

Specifications

Wavelength range (nm)	1260 to 1675 (O to U band)
Measurement range (ps)	0 to 115
Sensitivity (dBm)	-45 ¹
Measuring time (s)	4.5 (for any PMD value)
Absolute uncertainty (accuracy) ² (ps)	± (0.020 + 2 % of PMD)
Allows measurement through EDFA	Yes (above 120 EDFAs)

General Specifications

Temperature	operating	0 °C to 40 °C	(32 °F to 104 °F)
	storage	-40 °C to 70 °C	(-40 °F to 158 °F)
Relative humidity		0 % to 93 % non-condensing	
Size (H x W x D) (module only)		9.6 cm x 7.6 cm x 26.0 cm	(3 3/4 in x 3 in x 10 1/4 in)
Weight (module only)		1.5 kg	(3.4 lb)

Note:

1. Typical, for C-band. May be increased with averaging. With the FLS-5800, the typical dynamic range is 47 dB.
2. For C-band, assuming averaging over all states of polarization.

Ordering Information

PMD Analyzer

FTB-5500B-XX

Connector

- EI-EUI-28 = UPC/DIN 47256
- EI-EUI-76 = UPC/HMS-10/AG (EI only)
- EI-EUI-89 = UPC/FC narrow key
- EI-EUI-90 = UPC/ST (EI only)
- EI-EUI-91 = UPC/SC
- EI-EUI-95 = UPC/E-2000
- EA-EUI-28 = APC/DIN 47256
- EA-EUI-89 = APC/FC narrow key
- EA-EUI-91 = APC/SC
- EA-EUI-95 = APC/E-2000

Example: FTB-5500B-EI-EUI-89

Laser Safety

21 CFR 1040.10
IEC 60825-1: 2001

Class I Laser Product
Class 1 Laser Product

CD/PMD Analyzer Source

FLS-58XX-XX

Model

- FLS-5803 = 1550 nm SuperLED
- FLS-5804 = 1625 nm SuperLED
- FLS-5834 = 1550 nm and 1625 nm SuperLEDs

Connector

- EI-EUI-28 = UPC/DIN 47256
- EI-EUI-76 = UPC/HMS-10/AG (EI only)
- EI-EUI-89 = UPC/FC narrow key
- EI-EUI-90 = UPC/ST (EI only)
- EI-EUI-91 = UPC/SC
- EI-EUI-95 = UPC/E-2000
- EA-EUI-28 = APC/DIN 47256
- EA-EUI-89 = APC/FC narrow key
- EA-EUI-91 = APC/SC
- EA-EUI-95 = APC/E-2000

Example: FLS-5803-EI-EUI-89

Polarized Light Source

FLS-110-XXP-XX

Model

- FLS-110-02P = 1310 nm LED
- FLS-110-03P = 1550 nm LED

Connector

- 58 = FC/APC narrow key
- 89 = FC/UPC narrow key
- 91 = SC/UPC
- EI-EUI-28 = UPC/DIN 47256
- EI-EUI-76 = UPC/HMS-10/AG (EI only)
- EI-EUI-89 = UPC/FC narrow key
- EI-EUI-90 = UPC/ST (EI only)
- EI-EUI-91 = UPC/SC
- EI-EUI-95 = UPC/E-2000
- EA-EUI-28 = APC/DIN 47256
- EA-EUI-89 = APC/FC narrow key
- EA-EUI-91 = APC/SC
- EA-EUI-95 = APC/E-2000

Example: FLS-110-02P-EI-EUI-89

Standard Accessories

User Guide, Certificate of Calibration, connector cleaners.

CORPORATE HEADQUARTERS	400 Godin Avenue	Vanier (Quebec) G1M 2K2 CANADA	Tel.: 1 418 683-0211. Fax: 1 418 683-2170
EXFO AMERICA	4275 Kellway Circle, Suite 122	Addison TX 75001 USA	Tel.: 1 800 663-3936. Fax: 1 972 836-0164
EXFO EUROPE	Le Dynasteur, 10/12 rue Andras Beck	92366 Meudon la Forêt Cedex FRANCE	Tel.: +33.1.40.83.85.85 · Fax: +33.1.40.83.04.42
EXFO ASIA-PACIFIC	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 6333 8241 · Fax: +65 6333 8242
EXFO CHINA	Beijing New Century Hotel Office Tower, Room 1754-1755 No. 6 Southern Capital Gym Road	Beijing 100044 P. R. China	Tel.: +86 (10) 6849 2738 · Fax: +86 (10) 6849 2662
TOLL-FREE (USA and Canada)	Tel.: 1 800 663-3936		www.exfo.com • info@exfo.com

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