ELS-500
Light Source

EPM-500
Power Meter

NETWORK TESTING–OPTICAL

The Choice Solution for Network-Link Certification

- Pass/fail thresholds and LED indicator
- Memory capacity of 1000 data items; data transfer to a PC via USB connection
- Error-free testing: automatic wavelength switching, and no offset nulling required
- One-touch storage of results for all wavelengths at once (on the EPM-500)
- Complete reporting software
- Controlled multimode launching output NEW

The FiberBasix 500 series includes two highly convenient instruments:

- The **ELS-500 Light Source**, combining up to four wavelengths and available in four specific configurations
- The **EPM-500 Power Meter**, which offers high accuracy and referencing capabilities

Rugged, Reliable, Convenient

Like all EXFO portable instruments, FiberBasix 500 handheld units are built for top ruggedness and convenience, perfect for the harshest test conditions. They feature a keypad/LCD backlight, for easy operation in darker environments, rechargeable batteries and interchangeable connectors.

ELS-500 Light Source: Multiwavelength Testing Capability

The EXFO's ELS-500 Light Source provides excellent stability and high measurement accuracy with your choice of two wavelengths (1310/1550 nm) on a single port, or four wavelengths (850/1300 nm and 1310/1550 nm) on two ports. With its automatic wavelength switching mode, it is the perfect complement to the EPM-500 Power Meter when it comes to quickly and easily measuring attenuation on fiber-optic links.

- Tone generation for use with the EPM-500 Power Meter
- Automatic wavelength switching
- Highest singlemode output power in the industry

The ELS-500 Light Source

EPM-500 Power Meter: High Accuracy and Easy Referencing

The EPM-500 Power Meter provides highly accurate power measurements, as well as reference value setting capabilities. What's more, this convenient unit requires no offset nulling, for reliable, long-lasting performance in the field. When paired with an ELS-500 Light Source used in Auto-Switching mode, the power meter allows for semi-automated loss measurement, providing easy, error-free testing.

- Tone detection and automatic wavelength switching
- Memory capacity of 1000 data items; data transfer to a PC via USB connection
- Pass/fail threshholds and LED indicators
- No offset nulling required

The EPM-500 Power Meter

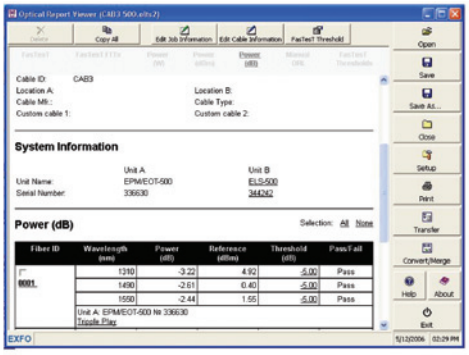
Reporting Software (EPM-500 Power Meter)

This new software tool enables you to produce professional-looking reports with comprehensive documentation. It also offers these functionalities:

- Two test files can be merged into one test report (see note no. 3)
- Pass/fail thresholds that are active during download are automatically activated and displayed in the Report Viewer
- One-touch storage of results for all wavelengths at once (see note no. 1)
- Unit B configuration information can be input and documented (see note no. 2)
- Data transfer can be launched from the Report Viewer window (see note no. 3)
- A pass/fail threshold can be set for an individual fiber or wavelength (see note no. 4)

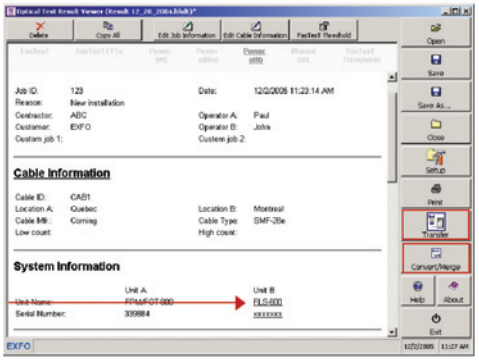
1

Store test results for all wavelengths at once



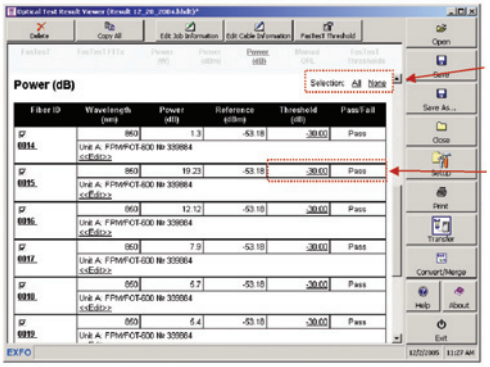
Optical Report Viewer: main window

2 *Configure unit B information*



Optical Report Viewer: main window

3 *Launch data transfer and converter/merger*



Optical Report Viewer: main window

4 *Select all or no results in a specific section*

Determine a threshold for each fiber and/or wavelength and get a pass/fail status (not available with FasTesT result)

ELS-500 SPECIFICATIONS [a]

Model [b]	**12D**	**23BL**
Central wavelength (nm)	850 ± 25 1300 +50/–10	1310 ± 20 1550 ± 20
Spectral width [c] (nm)	50/135	≤ 5
Output power (dBm)	≥ –20/≥ –20 (62.5/125 µm)	≥ 1/≥ 1
Automatic wavelength switching	Yes	Yes
Tone generation	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz
Battery life (hours) (typical in Auto mode)	50	50
Warranty and recommended calibration interval (year)	1	1

EPM-500 SPECIFICATIONS [a]

Model	**EPM-502**
Detector [d]	**Ge**
Power range [e] (dBm)	10 to –70
Wavelength range (nm)	800 to 1650
Number of calibrated wavelengths [f]	6
Power uncertainty [g]	±5 % ± 0.1 nW
Automatic offset nulling [h]	Yes
Display units	dB, dBm, W
Tone detection	270 Hz, 1 kHz and 2 kHz
Automatic wavelength recognition [f]	Yes
Warm-up period [i] (min)	0
Data storage (items)	Up to 1000
Battery life (hours) (typical)	70
Warranty and recommended recalibration interval (years)	1

NOTES

a. Guaranteed unless otherwise specified.
b. All specifications valid at 23 °C ± 1 °C, with an FC connector.
c. rms for FP lasers; –3 dB width for LEDs (typical values for LEDs).
d. All specifications valid at 1550 nm and 23 °C ± 1 °C, with an FC connector.
e. In CW mode; sensitivity defined as 6 x rms noise level.
f. At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm; for power > –50 dBm for EPM-502.g. For calibration wavelengths.
g. For calibration wavelengths.
h. For power > –40 dBm for EPM-502.
i. For a variation of ≤ 0.06 dB at power levels ≥ –40 dBm for EPM-502.

ORDERING INFORMATION

ELS-500-XX-XX

Model

ELS-500-12D-23BL = 850/1300 nm LED 62.5/125 µm, 1310/1550 nm laser, two ports
ELS-500-23BL = 1310/1550 nm laser, 9/125 µm, one port

Connector

EI-EUI-89 = UPC/FC narrow key
EI-EUI-90 = UPC/ST
EI-EUI-91 = UPC/SC
EI-EUI-95 = UPC/E-2000

Example: ELS-500-23BL-EI-EUI-89

EPM-50X-XX

Model

EPM-502 = Ge detector

Connector Adapter [a]

FOA-22 = FC (PC/SPC/UPC/APC), NEC-D3
FOA-32 = ST (PC/SPC/UPC)
FOA-54 = SC
FOA-96B = E-2000
FOA-98 = LC

Example: EPM-502-FOA-22

SAFETY

21 CFR 1040.10 and IEC 60825-1:1993+A1:1997+A2:2001:
ELS-500: CLASS 1M LASER PRODUCT

NOTE

a. Other connectors and connector adapters available. Consult our website at www.EXFO.com/accessories for details. EXFO Universal Interface is protected by US patent 6,612,750.

TEST KIT ORDERING INFORMATION

FBK-501-XX LAN Test Kit with data storage/transfer
- EPM-502-XX Power Meter, Ge detector
- ELS-100-12D-XX Light Source, 850/1300 nm LED (1 port)
- One TJ-DXX-XX Test Jumper
- Carrying case (GP-10-061)
- One FOA-XX
- One EUI-XX

FBK-502-XX Outside Plant Test Kit with data storage/transfer
- EPM-502-XX Power Meter, Ge detector
- ELS-100-23BL-XX Light Source, 1310/1550 nm laser (1 port)
- One TJ-BXX-XX Test Jumper
- Carrying case (GP-10-061)
- One FOA-XX
- One EUI-XX

FBK-503-XX Contractor Test Kit with data storage/transfer
- EPM-502-XX Power Meter, Ge detector
- ELS-100-12D-23BL-XX Light Source, 850/1300 nm LED and 1310/1550 nm laser (2 ports)
- One TJ-BXX-XX Test Jumper
- One TJ-DXX-XX Test Jumper
- Carrying case (GP-10-061)
- One FOA-XX
- Two EUI-XX

FBK-504-XX Premium LAN Test Kit with data storage/transfer
- EPM-502-XX Power Meter, Ge detector
- FLS-600-12D-XX Light Source
- One TJ-DXX-XX Test Jumper
- Carrying case (GP-10-061)
- One FOA-XX
- One EUI-XX

FBK-505-XX Premium Outside Plant Test Kit with data storage/transfer
- EPM-502-XX Power Meter, Ge detector
- ELS-500-23BL-XX Light Source, 1310/1550 nm laser (1 port)
- One TJ-BXX-XX Test Jumper
- Carrying case (GP-10-061)
- One FOA-XX
- One EUI-XX

FBK-506-XX Premium Contractor Test Kit with data storage/transfer
- EPM-502-XX Power Meter, Ge detector
- ELS-500-12D-23BL-XX Light Source, 850/1300 nm LED and 1310/1550 nm laser (2 ports)
- One TJ-BXX-XX Test Jumper
- One TJ-DXX-XX Test Jumper
- Carrying case (GP-10-061)
- One FOA-XX
- Two EUI-XX

Rugged Handheld Solutions

OPTICAL
- OTDRs
- OLTSs
- Power meters
- Light sources
- Talk sets

COPPER ACCESS
- ADSL/ADSL2+, SHDSL, VDSL test sets
- VoIP and IPTV test sets
- Ethernet test sets
- POTS test sets

Platform-Based Solutions

OPTICAL FIBER
- OTDRs
- OLTSs
- ORL meters
- Variable attenuators

DWDM TEST SYSTEMS
- OSAs
- PMD analyzers
- Chromatic dispersion analyzer

TRANSPORT AND DATACOM
- Next-generation SONET/SDH and OTN testers
- SONET/DSn (DS0 to OC-192) testers
- SDH/PDH (64 kbit/s to STM-64) testers
- T1/T3, E1 testers
- 10/100 Mbit/s and Gigabit Ethernet testers
- Fibre Channel testers
- 10 Gigabit Ethernet testers

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SPELS/EPM500.6AN

Printed in Canada 08/05

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