

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

EXFO

Exfo EPM-500 800nm Fiber Optic Optical Power Meter

The EXFO EPM-500 is a handheld optical power meter engineered for accurate power measurements across fiber optic networks operating at 800 nm and beyond. This field instrument delivers precise readings with reference value setting and requires no offset nulling for reliable operation in diverse test environments. When paired with an ELS-500 Light Source in Auto-Switching mode, it enables semi-automated loss measurement with automatic wavelength switching for error-free testing. Wavelength Range: 800 nm primary; also capable at 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, and 1625 nm, extending to 1650 nm maximum Laser Safety Classification: IEC 60825-1 Amendment 2:2001 and 21 CFR 1040.10; Class 1 without VCSEL sources; Class 3R with Visual Fault Locator option Wavelength, unit, and reference power settings retained on power-down; offset nulling resets to factory defaults upon restart



MODEL

Exfo EPM-500

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

EPM-500

LISTING

<https://aumictechlabs.com/products/epm-500-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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delivers precise readings with reference value setting and requires no offset nulling for reliable operation in diverse test environments. When paired with an ELS-500 Light Source in Auto-Switching mode, it enables semi-automated loss measurement with automatic wavelength switching for error-free testing. Technical Specifications Wavelength Range: 800 nm primary; also capable at 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, and 1625 nm, extending to 1650 nm maximum Measurement Units: dB, dBm, and Watt Detector Type: Ge or GeX Power Source: Rechargeable battery Laser Safety Classification: IEC 60825-1 Amendment 2:2001 and 21 CFR 1040.10; Class 1 without VCSEL sources; Class 3R with Visual Fault Locator option Key Features Tone detection and automatic wavelength switching Pass/Fail thresholds with LED status indicators LCD display with backlight keypad operation Memory capacity of 1000 data items USB data transfer to PC Auto-off function configurable at 10 minutes idle Wavelength, unit, and reference power settings retained on power-down; offset nulling resets to factory defaults upon restart Interchangeable connector compatibility with various adapters Typical Applications Fiber optic network testing and troubleshooting Field power measurements in short-wavelength and long-wavelength systems Integration with EXFO ELS-500 for semi-automated loss characterization Handheld operation in harsh or variable test environments Compatibility & Integration Works with EXFO ELS-500 Light Source for coordinated wavelength switching and loss measurement Includes EXFO FastReporter Software for test reporting Supports multiple connector types and adapter configurations USB interface for data export and PC integration

EPM500 Characteristics / Specifications

PARAMETER	VALUE
Series	EPM-500 FiberBasix
Model Ge	EPM-502
Model GeX	EPM-502X
Ge Power Range	10 to minus 70 dBm
GeX Power Range	26 to minus 55 dBm
Wavelength Range	800 to 1650 nm
Tone Detection	270 Hz 1 kHz 2 kHz
Data Storage	1000 items
Battery Life Typical	70 hours
Size HxWxD	19.0 cm x 10.0 cm x 6.2 cm
Weight	0.48 kg
Operating Temperature	minus 10 C to 50 C
Storage Temperature	minus 40 C to 70 C
Display Units	dB dBmWAutomatic Wavelength Switching: Yes with ELS-500 Auto mode
Spec Conditions	1550 nm 23 C plus or minus 1 C
GeX Uncertainty Valid Up To	20 dBm
Offset Nulling Ge Threshold	power greater than minus 40 dBm
Offset Nulling GeX Threshold	power greater than minus 25 dBm
Calibrated Wavelength Count Class	6 class FiberBasix 500
Form Factor	handheld FiberBasix 500
Related OLTS	EOT-500 family

EPM500 Specifications

PARAMETER	VALUE
Applications	Contractor power and semi-automated loss measurement with ELS-500, CWDM/FTTx power checks, and USB data transfer of stored results.
Tone detection and automatic wavelength switching	Memory for 1000 data items
Technical Specifications	Series: EPM-500 FiberBasix

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 70 C
Operating temperature	minus 10 C to 50 C
Operating Temperature	minus 10 C to 50 C
Display Units	dB dBmWAutomatic Wavelength Switching: Yes with ELS-500 Auto mode
Spec Conditions	1550 nm 23 C plus or minus 1 C
GeX Uncertainty Valid Up To	20 dBm
Offset Nulling Ge Threshold	power greater than minus 40 dBm
Offset Nulling GeX Threshold	power greater than minus 25 dBm
Calibrated Wavelength Count Class	6 class FiberBasix 500
Form Factor	handheld FiberBasix 500
Related OLTS	EOT-500 family Notes From EXFO FiberBasix 50/500 Power Meter Light Source OLTS user guide EPM-500 specifications tables. Confirm EPM-502 versus EPM-502X on the faceplate.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes	
From EXF0 FiberBasix 50/500 Power Meter Light Source OLTS user guide EPM-500 specifications tables. Confirm EPM-502 versus EPM-502X on the faceplate.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.