

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

EXFO

Exfo EPM-502 800nm Fiber Optic Optical Power Meter

The EXFO EPM-502 is a handheld optical power meter engineered for precise measurements across the 800 nm to 1650 nm wavelength range. Built with a germanium detector and calibrated at six industry-standard wavelengths (850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, 1625 nm), it delivers power uncertainty of ± 0.06 dB for levels ≥ -40 dBm and $\pm 5\% \pm 0.1$ nW for levels > -50 dBm. The meter supports automatic wavelength recognition, configurable pass/fail thresholds with LED indicators, and tone detection at 270 Hz, 1 kHz, and 2 kHz for network fault isolation. Class 1M laser product (standard); Class 3R when equipped with Visual Fault Locator option Aumictech offers NIST-traceable calibration and repair for the Exfo EPM-502. Calibration covers detector responsivity at 850, 1310, 1490, 1550, and 1625 nm, absolute power accuracy, linearity across the full dynamic range, and reference power level



MODEL

Exfo EPM-502

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

EPM-502

LISTING

<https://aumictechlabs.com/products/epm-502-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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delivers power uncertainty of ± 0.06 dB for levels ≥ -40 dBm and $\pm 5\% \pm 0.1$ nW for levels > -50 dBm. The meter supports automatic wavelength recognition, configurable pass/fail thresholds with LED indicators, and tone detection at 270 Hz, 1 kHz, and 2 kHz for network fault isolation.

Technical Specifications Wavelength Range: 800 nm to 1650 nm Calibrated Wavelengths: 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, 1625 nm Detector Type: Germanium (Ge) Power Range: -70 dBm to $+10$ dBm Power Uncertainty: ≤ 0.06 dB (≥ -40 dBm); $\pm 5\% \pm 0.1$ nW (> -50 dBm)

Measurement Units: dB, dBm, Watt Display: LCD with backlight Data Storage: Up to 1000 data items Battery Life: Up to 70 hours (typical) Power Source: Rechargeable battery with AC adapter (indoor use only) Key Features Automatic wavelength recognition eliminates manual selection Interchangeable SC and ST optical connectors Tone detection (270 Hz, 1 kHz, 2 kHz) for signal tracing USB data transfer to PC for logging and analysis Reference value setting and offset nulling capabilities Class 1M laser product (standard); Class 3R when equipped with Visual Fault Locator option Configurable pass/fail thresholds with visual status indicators Typical Applications Fiber installation and maintenance, optical link characterization, power budget validation, and field network diagnostics across long-haul, metro, and access wavelengths. Compatibility & Integration Works with EXFO ELS-500, EOT-500, and ELS-50 light sources. Compatible with EXFO ELS-500 in Auto-Switching mode for semi-automated loss measurement workflows.

EPM502 Characteristics / Specifications

PARAMETER	VALUE
Model	EPM-502
Detector	Ge
Power Range	10 to minus 70 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
Offset Nulling Threshold	power greater than minus 40 dBm
Spec Conditions	1550 nm 23 C plus or minus 1 C
Calibrated Wavelength Count Class	6
Related GeX Model	EPM-502X 26 to minus 55 dBm
Form Factor	handheld FiberBasix 500
USB Interface	yes for data transfer
Pass Fail Thresholds	supported with LED indicators
GeX Uncertainty Valid Up To	20 dBm on EPM-502X
Series Family	EPM-500 FiberBasix

EPM502 Specifications

PARAMETER	VALUE
Applications	Standard-power fiber power measurement, Auto-Switching loss with ELS-500, and field documentation with USB transfer.
Key Features	Ge detector to minus 70 dBm class
Tone detection 270 Hz 1 kHz 2 kHz	Automatic wavelength switching with ELS-500
Technical Specifications	Model: EPM-502
Notes	From EXFO FiberBasix 50/500 user guide EPM-502 column.

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
Offset Nulling Threshold	power greater than minus 40 dBm
Spec Conditions	1550 nm 23 C plus or minus 1 C
Calibrated Wavelength Count Class	6
Related GeX Model	EPM-502X 26 to minus 55 dBm
Form Factor	handheld FiberBasix 500
USB Interface	yes for data transfer
Pass Fail Thresholds	supported with LED indicators
GeX Uncertainty Valid Up To	20 dBm on EPM-502X
Series Family	EPM-500 FiberBasix Notes From EXFO FiberBasix 50/500 user guide EPM-502 column.

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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Model	EPM-502
Detector	Ge
Power Range	10 to minus 70 dBm
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Spec Conditions	1550 nm 23 C plus or minus 1 C
Calibrated Wavelength Count Class	6
Related GeX Model	EPM-502X 26 to minus 55 dBm
Form Factor	handheld FiberBasix 500
USB Interface	yes for data transfer
Pass Fail Thresholds	supported with LED indicators
GeX Uncertainty Valid Up To	20 dBm on EPM-502X
Series Family	EPM-500 FiberBasix
Notes	
From EXF0 FiberBasix 50/500 user guide EPM-502 column.	

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.