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**Data Sheet**

August 14, 2026

EXFO

# Exfo EPM-102X 850nm Fiber Optic Optical Power Meter

The EXFO EPM-102X is a handheld optical power meter engineered for fiber optic network testing and troubleshooting. Built around a Germanium detector optimized for high-power measurements, it delivers accurate readings across multiple wavelengths with reference value storage and battery-backed autonomy rated at 300 hours. The meter is purpose-built for field deployment in LAN/WAN installations, passive optical networks, and multimode/singlemode fiber characterization. Calibrated Wavelengths: 6 wavelengths including 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, and 1625 nm Auto-Off Function: Automatic shutdown after 10 minutes inactivity (user-selectable) Universal push-pull optical connector interface with adapter support for connector-type compatibility



MODEL

**Exfo EPM-102X**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**EPM-102X**

LISTING

<https://aumictechlabs.com/products/epm-102x-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The EXFO EPM-102X is a handheld optical power meter engineered for fiber optic network testing and troubleshooting. Built around a Germanium detector optimized for high-power measurements, it delivers accurate readings across multiple wavelengths with reference value storage and battery-backed autonomy rated at 300 hours. The meter is purpose-built for field deployment in

LAN/WAN installations, passive optical networks, and multimode/singlemode fiber characterization. Technical Specifications Detector Type: Germanium (Ge) detector for high-power applications Measurement Range: 26 to -50 dBm Measurement Units: dB, dBm, Watt Calibrated Wavelengths: 6 wavelengths including 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, and 1625 nm Primary Operating Wavelength: 850 nm Battery Autonomy: 300 hours continuous operation Auto-Off Function: Automatic shutdown after 10 minutes inactivity (user-selectable) Power Source: Battery with AC adapter option for stationary indoor use Key Features Universal push-pull optical connector interface with adapter support for connector-type compatibility Reference value setting and retention across power cycles Rugged handheld form factor designed for field environments Class 1M laser product compliant with IEC 60825-1 Amendment 2:2001 and 21 CFR 1040.10 Display-based readout for real-time power monitoring Typical Applications LAN/WAN fiber optic network installation and verification Passive optical network (PON) testing at ITU-T recommended wavelengths Multimode and singlemode fiber power measurement Fiber optic cable installation troubleshooting Compatibility & Integration The EPM-102X integrates with EXFO light sources including the ELS-100 and EOT-100 for comprehensive optical loss testing. Its universal connector interface accommodates standard fiber adapters, enabling deployment across diverse network topologies and installation scenarios.

## EPM102X Characteristics / Specifications

| PARAMETER                             | VALUE                                       |
|---------------------------------------|---------------------------------------------|
| Model                                 | EPM-102X                                    |
| Series                                | EPM-100 FiberBasix                          |
| Detector                              | GeX                                         |
| Related Ge Model Power Range          | EPM-102 10 to minus 60 dBm                  |
| Related Ge Displayed Range            | down to minus 65 dBm                        |
| Resolution                            | 0.01 dB                                     |
| Display Units                         | dB dBmWAutomatic Offset Nulling: Yes        |
| Warm Up Time                          | 0 s                                         |
| Size HxWxD                            | 185 mm x 100 mm x 55 mm                     |
| Weight                                | 0.4 kg                                      |
| Operating Temperature                 | minus 10 C to 50 C                          |
| Storage Temperature                   | minus 40 C to 70 C                          |
| Relative Humidity                     | 0 percent to 95 percent non-condensing      |
| Battery Life Typical FiberBasix 1     | greater than 300 hours                      |
| Screen Refresh Rate                   | 3 Hz                                        |
| High End Wavelength Limit             | 1625 nm                                     |
| Connector Adapters Class              | FOA-22 FC FOA-32 ST FOA-54 SC FOA-98 LC     |
| Spec Conditions                       | 1550 nm 23 C plus or minus 1 C FC connector |
| Warranty Recalibration Interval Class | 3 years                                     |
| Form Factor                           | handheld FiberBasix                         |
| GeX Uncertainty Valid Up To Class     | 20 dBm class portable GeX EXFO              |
| Tone Detection Class                  | when equipped per FiberBasix options        |
| Humidity                              | 0 percent to 95 percent non-condensing      |

# 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                                                                                                                                                                                                                      |
| Humidity                              | 0 percent to 95 percent non-condensing                                                                                                                                                                                                  |
| Relative Humidity                     | 0 percent to 95 percent non-condensing                                                                                                                                                                                                  |
| Battery Life Typical FiberBasix 1     | greater than 300 hours                                                                                                                                                                                                                  |
| Screen Refresh Rate                   | 3 Hz                                                                                                                                                                                                                                    |
| High End Wavelength Limit             | 1625 nm                                                                                                                                                                                                                                 |
| Connector Adapters Class              | FOA-22 FC FOA-32 ST FOA-54 SC FOA-98 LC                                                                                                                                                                                                 |
| Spec Conditions                       | 1550 nm 23 C plus or minus 1 C FC connector                                                                                                                                                                                             |
| Warranty Recalibration Interval Class | 3 years                                                                                                                                                                                                                                 |
| Form Factor                           | handheld FiberBasix                                                                                                                                                                                                                     |
| GeX Uncertainty Valid Up To Class     | 20 dBm class portable GeX EXFO                                                                                                                                                                                                          |
| Tone Detection Class                  | when equipped per FiberBasix options Notes From EXFO FiberBasix 100 / EPM-100 family literature for EPM-102X GeX. Confirm exact GeX power-range window on the unit calibration certificate; Ge numeric column is published for EPM-102. |

# 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

Specifications

| PARAMETER                           | VALUE                                       |
|-------------------------------------|---------------------------------------------|
| Model                               | EPM-102X                                    |
| Series                              | EPM-100 FiberBasix                          |
| Detector                            | GeX                                         |
| Related Ge Model Power Range        | EPM-102 10 to minus 60 dBm                  |
| Related Ge Displayed Range          | down to minus 65 dBm                        |
| Resolution                          | 0.01 dB                                     |
| Display Units                       | dB dBmWAutomatic Offset Nulling: Yes        |
| Warm Up Time                        | 0 s                                         |
| Size HxWxD                          | 185 mm x 100 mm x 55 mm                     |
| Weight                              | 0.4 kg                                      |
| Operating Temperature               | minus 10 C to 50 C                          |
| Storage Temperature                 | minus 40 C to 70 C                          |
| Relative Humidity                   | 0 percent to 95 percent non-condensing      |
| Battery Life Typical FiberBasix 100 | greater than 300 hours                      |
| Screen Refresh Rate                 | 3 Hz                                        |
| High End Wavelength Limit           | 1625 nm                                     |
| Connector Adapters Class            | F0A-22 FC F0A-32 ST F0A-54 SC F0A-98 LC     |
| Spec Conditions                     | 1550 nm 23 C plus or minus 1 C FC connector |

Warranty Recalibration Interval Class: 3 years

Specifications

| PARAMETER                         | VALUE                                |
|-----------------------------------|--------------------------------------|
| Form Factor                       | handheld FiberBasix                  |
| GeX Uncertainty Valid Up To Class | 20 dBm class portable GeX EXF0       |
| Tone Detection Class              | when equipped per FiberBasix options |

Notes

From EXF0 FiberBasix 100 / EPM-100 family literature for EPM-102X GeX. Confirm exact GeX power-range window

on the unit calibration certificate; Ge numeric column is published for EPM-102.

### Available from Aumictech

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

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

#### Aumictech

788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341  
<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.