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Data Sheet

August 14, 2026

EXFO

Exfo EPM-100 850nm Fiber Optic Optical Power Meter

The EXFO EPM-100 is a handheld optical power meter designed for measuring optical power in fiber optic systems at 850nm wavelength. It features a user-friendly interface and is suitable for field testing and troubleshooting of fiber optic networks.



MODEL

Exfo EPM-100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

EPM-100

LISTING

<https://aumictechlabs.com/products/epm-100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO EPM-100 is a handheld optical power meter for measuring optical power in fiber optic systems at 850 nm wavelength. It delivers precise power measurements from +10 dBm down to -60 dBm with $\pm 5\% \pm 10$ nW uncertainty and 0.01 dB resolution. The meter supports multiple measurement units (dB, dBm, W) and features a reference function for direct loss calculations. Its universal push-pull interface accepts interchangeable connector adapters FC, ST, SC, and LC - enabling rapid field connections. The EPM-100 runs on three AA batteries for approximately 300 hours of operation and reaches full specification accuracy after a 15-minute warm-up. Housed in a compact form factor measuring 185 mm × 100 mm × 55 mm and weighing 0.4 kg, it operates across -10 °C to 50 °C and handles 0-95% relative humidity without condensation. The meter integrates with EXFO's ELS-100 Light Source for attenuation measurements and suits LAN/WAN

fiber-optic network testing and troubleshooting. Technical Specifications Wavelength: 850 nm (primary); EPM-100 series supports 1300 nm, 1310 nm, 1490 nm, 1550 nm, and 1625 nm Detector: Germanium (Ge) Measurement Range: +10 dBm to -60 dBm Power Uncertainty: $\pm 5\% \pm 10$ nW Resolution: 0.01 dB Measurement Units: dB, dBm, W Warm-up Time: 0 seconds (basic operation); 15 minutes (full specification) Battery Life: Approximately 300 hours Battery Type: Three AA batteries Operating Temperature: -10 °C to 50 °C Storage Temperature: -40 °C to 70 °C Relative Humidity: 0-95% non-condensing Dimensions: 185 mm × 100 mm × 55 mm Weight: 0.4 kg Key Features Universal push-pull connector interface with FC, ST, SC, and LC adapters Reference value function for direct loss measurements Automatic offset nulling capability Compact, portable design for field deployment AC adapter support for stationary operation Compatibility & Integration Designed to pair with the EXFO ELS-100 Light Source for fiber-optic link attenuation testing. Applicable to Passive Optical Networks (PON) at 1310 nm, 1490 nm, and 1550 nm wavelengths. Complies with IEC 60825-1 Amendment 2: 2001 and 21 CFR 1040.10 (Class 1M laser product).

EPM100 Characteristics / Specifications

PARAMETER	VALUE
Series	EPM-100 FiberBasix
Model Example	EPM-102
Detector	Ge
Power Range	10 to minus 60 dBm
Range Displayed	down to minus 65 dBm
Calibrated Wavelength Count	6
Power Uncertainty	plus or minus 5 percent plus or minus 1 nW
Resolution	0.01 dB
Automatic Offset Nulling	Yes
Warm Up Time	0 s
Display Units	dB dBmWScreen Refresh Rate: 3 Hz
Battery Life Typical	greater than 300 hours
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
High End Wavelength Limit Class	1625 nm
Warranty Recalibration Interval Class	3 years
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
Humidity	0 percent to 95 percent non-condensing

EPM100 Specifications

PARAMETER	VALUE
Key Features	Ge detector EPM-102 configuration
No offset nulling required	Greater than 300-hour battery autonomy
Technical Specifications	Series: EPM-100 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
Humidity	0 percent to 95 percent non-condensing
Relative Humidity	0 percent to 95 percent non-condensing
High End Wavelength Limit Class	1625 nm
Warranty Recalibration Interval Class	3 years
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 Notes From EXFO FiberBasix 100 / EPM-100 discontinued specification sheet SPEPM-100 family for EPM-102. Confirm calibrated wavelength set on the unit certificate.

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
Series	EPM-100 FiberBasix
Model Example	EPM-102
Detector	Ge
Power Range	10 to minus 60 dBm
Range Displayed	down to minus 65 dBm
Calibrated Wavelength Count	6
Power Uncertainty	plus or minus 5 percent plus or minus 1 nW
Resolution	0.01 dB
Automatic Offset Nulling	Yes
Warm Up Time	0 s
Display Units	dB dBmWScreen Refresh Rate: 3 Hz
Battery Life Typical	greater than 300 hours
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
High End Wavelength Limit Class	1625 nm

Warranty Recalibration Interval Class: 3 years
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

Notes
From EXFO FiberBasix 100 / EPM-100 discontinued specification sheet SPEPM-100 family for EPM-102. Confirm calibrated wavelength set on the unit certificate.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.