

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

EXFO

Exfo EPM-102 850nm Fiber Optic Optical Power Meter

The EXFO EPM-102 is a handheld optical power meter engineered for accurate measurement of optical signal levels across fiber optic networks. Purpose-built for the 850 nm wavelength, this instrument delivers the measurement reliability field technicians and network engineers require for cable installation verification, signal attenuation analysis, and LAN/WAN network troubleshooting without premium pricing. Universal push-pull connector interface with interchangeable connector support for multimode and singlemode fiber Class 1 laser product compliant with IEC 60825-1 Amendment 2: 2001 and 21 CFR 1040.10 Aumictech offers NIST-traceable calibration and repair for the Exfo EPM-102. 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. All calibrations ship with a NIST-tra



MODEL

Exfo EPM-102

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

EPM-102

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO EPM-102 is a handheld optical power meter engineered for accurate measurement of optical signal levels across fiber optic networks. Purpose-built for the 850 nm wavelength, this instrument delivers the measurement reliability field technicians and network engineers require

for cable installation verification, signal attenuation analysis, and LAN/WAN network troubleshooting without premium pricing. Technical Specifications Measurement range spans 10 dBm to -60 dBm, with display capability down to -65 dBm and 0.01 dB resolution. Power uncertainty is $\pm 5\% \pm 1 \text{ nW}$. The meter operates across six calibrated wavelengths: 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, and 1625 nm, enabling multi-wavelength network diagnostics from short-reach LAN segments to long-haul and access networks. Automatic offset nulling and reference value setting streamline field procedures. Battery autonomy reaches 300 hours on three AA cells, with optional AC adapter for sustained indoor use. Operating temperature range is -10 °C to 50 °C; storage rated to -40 °C to 70 °C in up to 95 % relative humidity (non-condensing). Key Features Universal push-pull connector interface with interchangeable connector support for multimode and singlemode fiber Compact handheld form factor: 185 mm H × 100 mm W × 55 mm D, weighing 0.4 kg Measurement units selectable in dB, dBm, or Watt Class 1 laser product compliant with IEC 60825-1 Amendment 2: 2001 and 21 CFR 1040.10 EMC and FCC certifications for laboratory and field measurement environments Typical Applications Fiber optic cable installation acceptance testing, signal attenuation verification during network deployment, and LAN/WAN troubleshooting. Passive optical network (PON) assessment at ITU-T G.983.3 recommended wavelengths (1310 nm, 1490 nm, 1550 nm) for FTTx infrastructure validation. Compatibility & Integration Operates with both singlemode and multimode fibers. Supports PON testing across FTTx applications per ITU-T G.983.3 standards.

EPM102 Characteristics / Specifications

PARAMETER	VALUE
Detector Type	Ge
Power Range	10 to minus 60 dBm
Range Displayed	down to minus 65 dBm
Calibrated Wavelength Count	6
Calibrated Wavelengths	850 1300 1310 1490 1550 1625 nm
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
Recommended Calibration Interval	1 year
Warranty Class	1 year
Power Source	three AA batteries
Form Factor	handheld FiberBasix 100
Reference Value Setting	yes
Nulling Requirement	automatic offset nulling
Intended Fibers Class	multimode and singlemode with FOA adapters
Standard Kit Class	user guide calibration certificate AC adapter FOA adapter batteries wrist strap

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 EXFO FiberBasix 100 / EPM-100 series discontinued specification sheet for EPM-102 Ge detector. Fiber detector linearity and FOA-specific uncertainty belong on the calibration certificate for the unit under test.

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.