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Data Sheet

August 14, 2026

EXFO

Exfo FPM-302X 830nm Fiber Optic Optical Power Meter

The EXFO FPM-302X is a handheld fiber optic optical power meter designed for precise measurement of optical signal power across multiple wavelengths. Built around a high-power germanium detector, it delivers accurate power readings in dBm, dB, and Watt units via an LCD display. The instrument supports 10 calibrated wavelengths from 830 nm to 1625 nm, with auto-wavelength recognition that eliminates offset nulling and reduces measurement time. Power measurement spans from +26 dBm to -50 dBm, making it suitable for both standard and high-power applications. Calibrated Wavelengths: 830 nm, 850 nm, 980 nm, 1300 nm, 1310 nm, 1450 nm, 1490 nm, 1550 nm, 1590 nm, 1625 nm Power Uncertainty: ± 0.25 dB (typical for FPM-302 series at 1550 nm, 23 °C $\pm$ 1 °C, FC connector); ± 0.05 dB at temperatures > 18 °C Interfaces: USB data transfer; distant referencing via compatible EXFO light sources



MODEL

Exfo FPM-302X

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FPM-302X

LISTING

<https://aumictechlabs.com/products/fpm-302x-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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display. The instrument supports 10 calibrated wavelengths from 830 nm to 1625 nm, with auto-wavelength recognition that eliminates offset nulling and reduces measurement time. Power measurement spans from +26 dBm to -50 dBm, making it suitable for both standard and high-power applications. Technical Specifications Detector: High-power Germanium (GeX) Calibrated Wavelengths: 830 nm, 850 nm, 980 nm, 1300 nm, 1310 nm, 1450 nm, 1490 nm, 1550 nm, 1590 nm, 1625 nm Measurement Range: +26 dBm to -50 dBm Power Uncertainty: ± 0.25 dB (typical for FPM-302 series at 1550 nm, 23 °C $\pm$ 1 °C, FC connector); ± 0.05 dB at temperatures > 18 °C Optical Connectors: Interchangeable adapters (FC, SC, ST, LC) Operating Temperature: 0°C to 50°C Battery Life: Over 300 hours (three AA batteries) Display: LCD Screen Interfaces: USB data transfer; distant referencing via compatible EXFO light sources Key Features Auto-wavelength recognition across 10 calibrated points No offset nulling required, reducing field measurement time High-power germanium detector for extended dynamic range Fiber compatibility with single-mode and multimode cables Compact, battery-powered handheld design Typical Applications Passive Optical Network (PON) testing at 1310 nm, 1490 nm, and 1550 nm Fiber-to-the-home (FTTH) deployments and commissioning Fiber optic signal strength and loss analysis Network troubleshooting and maintenance Compatibility & Integration Complies with ITU-T G.983.3, G.984, and IEEE 802.3ah standards FCC Part 15 compliant Compatible with EXFO FLS-300 and FOT-300 light sources for distant referencing FTTx-ready architecture

FPM302X Characteristics / Specifications

PARAMETER	VALUE
Model	FPM-302X
Detector	GeX
Power Range	26 to minus 50 dBm
Range Displayed	down to minus 50 dBm
Power Uncertainty	plus or minus 5 percent plus or minus 10 nW
Uncertainty Valid Up To	20 dBm
Resolution	0.01 dB from 26 dBm to minus 35 dBm
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
Calibrated Wavelength Count	10
Calibrated Wavelengths	830 850 980 1300 1310 1450 1490 1550 1590 1625 nm
Tone Detection	270 Hz 1 kHz 2 kHz
Display Units	dB dBmWScreen Refresh Rate: 3 Hz
Automatic Wavelength Recognition	Yes
Battery Life Typical	greater than 300 hours
Warranty Recalibration Interval	3 years
Automatic Offset Nulling	Yes
Warm Up Period	0 s
Spec Conditions	1550 nm 23 C plus or minus 1 C FC connector
Humidity	0 percent to 95 percent non-condensing

FPM302X Specifications

PARAMETER	VALUE
Applications	High-power FTTx/CATV power measurement, Auto-Wavelength Recognition with FLS-300/FOT-300, and long-autonomy field documentation.
Key Features	GeX detector to plus 26 dBm class
Technical Specifications	Model: FPM-302X
Notes	From EXFO FPM-300 Power Meter datasheet SPFPM300.6AN FPM-302X column. Offset nulling applies for power greater than minus 25 dBm on GeX.

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
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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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greater than minus 25 dBm on GeX.

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 ·
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.