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Data Sheet

August 14, 2026

EXFO

Exfo FPM-302 830nm Fiber Optic Optical Power Meter

The Exfo FPM-302 is an 830nm Fiber Optic Optical Power Meter designed for testing and troubleshooting fiber optic networks. It accurately measures optical power, ensuring optimal signal strength and performance. Ideal for field technicians and network engineers.



MODEL

Exfo FPM-302

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FPM-302

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Exfo FPM-302 is a handheld fiber optic optical power meter engineered for precise measurement of optical signal strength across multiple wavelengths. It delivers accurate power quantification from 10 dBm to -60 dBm with extended display capability to -65 dBm, enabling field technicians and network engineers to identify signal loss, verify network performance, and troubleshoot fiber optic infrastructures. Built around a Germanium detector, the FPM-302 offers 0.01 dB resolution and $\pm 5\%$ ± 1 nW uncertainty across 10 calibrated wavelengths spanning 830 nm to 1625 nm. Technical Specifications Detector Type: Germanium (Ge) Calibrated Wavelengths: 830 nm, 850 nm, 980 nm, 1300 nm, 1310 nm, 1450 nm, 1490 nm, 1550 nm, 1590 nm, 1625 nm Power Range: 10 dBm to -60 dBm Displayed Power Range: Down to -65 dBm Power Uncertainty: $\pm 5\%$ ± 1 nW Resolution: 0.01 dB Measurement Units: dB, dBm, Watt Tone Detection Frequencies:

270 Hz, 1 kHz, 2 kHz Screen Refresh Rate: 3 Hz Warm-up Time: 0 seconds Battery Life: Over 300 hours typical Connector: FC (adapters available for alternate types) Key Features Auto-Wavelength Recognition: Automatically selects correct calibration parameters when paired with EXFO FLS-300 or FOT-300 sources using encrypted wavelength-identification protocols Automatic Offset Nulling: Eliminates manual nulling steps, reducing measurement time Distant Referencing: Supports long-distance referencing via encrypted signal transmission from compatible sources FTTx Ready: Compliant with ITU-T G.983, G.984, and IEEE 802.3ah for passive optical network testing at 1310 nm, 1490 nm, and 1550 nm Typical Applications Fiber optic infrastructure installation and maintenance Passive optical network (PON) commissioning and troubleshooting Signal strength verification across telecom wavelengths Optical loss quantification and link budgeting Compatibility & Integration The FPM-302 integrates with EXFO FLS-300 and FOT-300 light sources for automated wavelength-specific calibration. Standard accessories include user guide, calibration certificate, AC adapter, connector adapter, three AA batteries, wrist strap, and carrying case.

FPM302 Characteristics / Specifications

PARAMETER	VALUE
Model	FPM-302
Detector	Ge
Power Range	10 to minus 60 dBm
Range Displayed	down to minus 65 dBm
Power Uncertainty	plus or minus 5 percent plus or minus 1 nW
Resolution	0.01 dB from 10 dBm to minus 50 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

FPM302 Specifications

PARAMETER	VALUE
Applications	LAN/WAN and FTTx power measurement, distant referencing with encrypted FLS-300/FOT-300 sources, and long-autonomy contractor power checks.
Key Features	Ge detector with 10 calibrated wavelengths
No offset nulling in typical use	Tone detection 270 Hz 1 kHz 2 kHz
Technical Specifications	Model: FPM-302

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
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 Notes From EXFO FPM-300 Power Meter datasheet SPFPM300.6AN FPM-302 column. Wavelength recognition at 850/1300/1310/1490/1550/1625 nm for power greater than minus 50 dBm.

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	FPM-302
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Specifications	
PARAMETER	VALUE
Automatic Offset Nulling	Yes
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Spec Conditions	1550 nm 23 C plus or minus 1 C FC connector

Notes

From EXFO FPM-300 Power Meter datasheet SPFPM300.6AN FPM-302 column. Wavelength recognition at 850/1300/1310/1490/1550/1625 nm for power greater than minus 50 dBm.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.