

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

EXFO

Exfo FOT-12AX Optical Power Meter

The Exfo FOT-12AX is a handheld optical power meter designed for accurate and reliable measurement of optical power in fiber optic networks. It features a wide dynamic range, multiple wavelength calibration, and a user-friendly interface. Ideal for field technicians and network engineers.



MODEL

Exfo FOT-12AX

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FOT-12AX

LISTING

<https://aumictechlabs.com/products/fot-12ax-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The EXFO FOT-12AX is a handheld optical power meter engineered for precision measurement of optical power and loss across fiber optic networks. Built around a GeX high-power germanium detector with 2 mm aperture, it delivers traceable NIST-calibrated readings from -50 dBm to +21 dBm with ± 0.05 dB resolution and $\pm 5\%$ uncertainty. The instrument performs direct loss measurement in dB, transmitter power assessment in dBm and watts, and component insertion-loss characterization. A 2 kHz signal detection capability enables fiber identification in the field. Electrical offset nulling ensures reliable operation across extreme temperature ranges. Single 9V alkaline battery powers the meter for over 14 hours per charge, with auto-off functionality to extend runtime. Compact, shockproof holster design and user-friendly interface support rapid deployment by field technicians and network engineers during installation, maintenance, and troubleshooting operations. Technical Specifications Detector: GeX (2 mm) high-power

germanium detector Calibrated Wavelengths: 780 nm, 850 nm, 1300 nm, 1310 nm, 1550 nm
Measurement Range: -50 dBm to +21 dBm Resolution: ± 0.05 dB Measurement Uncertainty: $\pm 5\%$
Power Measurement Units: dBm, watts Loss Measurement: Direct dB readings Signal Detection: 2
kHz fiber identification capability Offset Nulling: Electrical offset for extreme temperature
operation Battery: Single 9V alkaline, 14+ hours operation Key Features NIST-traceable calibration
ensures measurement accuracy Compact, rugged construction rated for field environments
Automatic power-off conserves battery life Shockproof holster with integrated storage for
adapters and batteries Linear amplification technology Typical Applications Transmitter power
measurements Fiber-link loss testing Component insertion-loss characterization Fiber
identification via 2 kHz signal detection LAN installation and maintenance Fiber performance
evaluation in scientific and industrial settings

Features & description

From manufacturer datasheet

High Power Capability: GeX elevated maximum versus Ge

Operating Temperature: minus 10 C to 50 C class portable EXFO Storage Temperature: minus 20 C to 60 C class Relative Humidity: 0 percent to 95 percent non-condensing Primary Use: power and loss testing Linearity Class: plus or minus 0.01 to plus or minus 0.02 dB by configuration Ultra High Power Sibling Class: FOT-93AX P1/P2 28/35 dBm Documentation Basis: FOT-90A family configuration summaries Notes From EXFO FOT-90A portable power meter family configuration summaries applied to FOT-12AX GeX ordering identity. Confirm exact power-range window and calibrated wavelengths on the unit certificate.

FOT12AX Characteristics / Specifications

PARAMETER	VALUE
Model	FOT-12AX
Detector	GeX
Wavelength Range	780 to 1625 nm
Resolution	0.01 dB
Size HxWxD	22 × 11 × 5 cm FOT-90A envelope
Series Family	FOT portable power meters
Compatible Sources Class	FLS-210 / FLS-12xx LED codes
Automation	wavelength recognition and loss store
Uncertainty Class	plus or minus 5 percent class
Display Units	dB dBmWForm Factor: handheld field unit
Powering	AC adapter/charger and batteries
Related SM GeX	FOT-92AX
Related Ge	FOT-92A / FOT-12A class
High Power Capability	GeX elevated maximum versus Ge
Operating Temperature	minus 10 C to 50 C class portable EXFO
Storage Temperature	minus 20 C to 60 C class
Relative Humidity	0 percent to 95 percent non-condensing
Primary Use	power and loss testing
Linearity Class	plus or minus 0.01 to plus or minus 0.02 dB by configuration
Ultra High Power Sibling Class	FOT-93AX P1/P2 28/35 dBm
Documentation Basis	FOT-90A family configuration summaries
Humidity	0 percent to 95 percent non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 60 C class
Operating temperature	minus 10 C to 50 C class portable EXFO
Operating Temperature	minus 10 C to 50 C class portable EXFO
Humidity	0 percent to 95 percent non-condensing
Relative Humidity	0 percent to 95 percent non-condensing
Primary Use	power and loss testing
Linearity Class	plus or minus 0.01 to plus or minus 0.02 dB by configuration
Ultra High Power Sibling Class	FOT-93AX P1/P2 28/35 dBm
Documentation Basis	FOT-90A family configuration summaries Notes From EXFO FOT-90A portable power meter family configuration summaries applied to FOT-12AX GeX ordering identity. Confirm exact power-range window and calibrated wavelengths 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	
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PARAMETER	VALUE
Model	FOT-12AX
Detector	GeX
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Related SM GeX	FOT-92AX
Related Ge	FOT-92A / FOT-12A class
High Power Capability	GeX elevated maximum versus Ge
Operating Temperature	minus 10 C to 50 C class portable EXF0
Storage Temperature	minus 20 C to 60 C class
Relative Humidity	0 percent to 95 percent non-condensing
Primary Use	power and loss testing
Linearity Class	plus or minus 0.01 to plus or minus 0.02 dB by configuration
Ultra High Power Sibling Class	FOT-93AX P1/P2 28/35 dBm
Documentation Basis	FOT-90A family configuration summaries
Notes	
From EXF0 FOT-90A portable power meter family configuration summaries applied to FOT-12AX GeX ordering identity. Confirm exact power-range window and calibrated wavelengths 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.