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Data Sheet

August 14, 2026

EXFO

Exfo AXS-100 Singlemode OTDR

The Exfo AXS-100 Singlemode OTDR is a handheld optical time-domain reflectometer designed for testing and troubleshooting single-mode optical fibers. It features a dynamic range of up to 36 dB, a short dead zone, and a user-friendly interface. It is suitable for various applications, including FTTx, LAN/WAN, and metro networks.



MODEL

Exfo AXS-100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AXS-100

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Exfo AXS-100 is a handheld optical time-domain reflectometer designed for singlemode fiber testing and troubleshooting in access networks, FTTx, and PON architectures. Its dedicated 1625 nm port with wavelength filtering enables in-service testing without disrupting active network traffic. The instrument delivers intuitive one-button operation through proprietary FTTx software, producing immediate pass/fail results, macrobend detection, and fault location. Technical Specifications Wavelengths: 1310 nm, 1550 nm, 1625 nm (filtered for in-service testing) Dynamic Range: 29 dB @ 1310 nm | 28 dB @ 1550 nm | 28 dB @ 1625 nm Event Dead Zone: 2.5 m minimum (10 ns pulse, -45 dB reflectance threshold) Trace Storage: Up to 30,000 points per trace; 500 traces internal memory Test Modes: Auto, Manual, Fault Finder, Real-time Battery Runtime: Up to 8 hours Operating Temperature: -18°C to +50°C Dimensions: 250 × 125 × 75 mm | Weight: 1.0 kg Display: TFT transfective color, sunlight-readable Key Features In-service PON testing via 1625

nm filtered port (rejects 1310, 1490, 1550 nm) Macrobend detection and automated fault identification Universal connector for Visual Fault Locator (650 nm VFL) Built-in ruggedness for field deployment Trace capture, storage, and data export via USB-A, USB-B, or infrared printer interface RJ-45 connectivity for TCP/IP testing Optional Accessories Power Meter (PM2X): 800 to 1650 nm range, -60 to +26 dBm (GeX 2 mm detector), CWDM-calibrated Fiber Inspection Probe (FIP-400): Endface inspection capability IP Testing Option: Basic IP verification for network diagnostics Typical Applications Fiber plant acceptance testing, field troubleshooting, fault location in live PON networks, access network commissioning, and branch/feeder circuit validation.

AXS100 Characteristics / Specifications

PARAMETER	VALUE
Dynamic Range 1310/1550/16	29/28/28 dB
Pulse Widths	10, 30, 100, 275, 1000, 2500, 10000 ns
Event Dead Zone Typical	2.5 m
Attenuation Dead Zone Typical	11/12/12 m
Linearity	+/-0.05 dB/dB
Loss Threshold	0.01 dB
Loss Resolution	0.01 dB
Sampling Resolution	0.16 to 5 m
Sampling Points	Up to 30000
Distance Uncertainty	+/- (1 + 0.005% x distance + sampling resolution) m
Distance Range	0.65 to 160 km
Typical Real Time Refresh	0.5 s
Memory Capacity	500 traces
Stable Source Output Power Typical	-9 dBm at 1550 nm
Size HxWxD	250 × 125 × 75 mm
Weight	1 kg (2.2 lb)
Operating Temperature	-10 C to 50 C
Storage Temperature	-40 C to 70 C
Battery Life	8 hours continuous per Bellcore TR-NWT-001138
Warranty	1 year
Spec Conditions	23 C +/-2 C with FC/PC connector
Attenuation	Dead Zone Typical: 11/12/12 m

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to 70 C
Operating temperature	10 C to 50 C
Operating Temperature	10 C to 50 C
Battery Life	8 hours continuous per Bellcore TR-NWT-001138
Warranty	1 year
Spec Conditions	23 C +/-2 C with FC/PC connector Notes From EXFO AXS-100 Access OTDR specification sheet. Dynamic range typical with 10 us pulse and three-minute averaging at SNR=1. Dead zones typical for SM reflectance below -45 dB using 10 ns pulse.

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
Dynamic Range 1310/1550/1625	29/28/28 dB
Pulse Widths	10, 30, 100, 275, 1000, 2500, 10000 ns
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Distance Range	0.65 to 160 km
Typical Real Time Refresh	0.5 s
Memory Capacity	500 traces
Stable Source Output Power Typical	-9 dBm at 1550 nm
Optional VFL Wavelength: 650 +/-10 nm	
Optional VFL Typical Pout 62.5/125 um: 3 dBm (2 mW)	
Optional PM Power Range: 26 to -64 dBm GeX 2 mm	
Optional PM Calibrated Wavelengths: 850, 1300, 1310, 1490, 1550, 1625, 1650 nm	
Optional PM Uncertainty: +/-5% +/-0.4 nW up to 5 dBm	
Specifications	
PARAMETER	VALUE
Size HxWxD	250 x 125 x 75 mm
Weight	1 kg (2.2 lb)
Operating Temperature	-10 C to 50 C
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Battery Life	8 hours continuous per Bellcore TR-NWT-001138
Warranty: 1 year	
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Notes

From EXFO AXS-100 Access OTDR specification sheet. Dynamic range typical with 10 us pulse and three-minute averaging at SNR=1. Dead zones typical for SM reflectance below -45 dB using 10 ns pulse.

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.