

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

EXFO

Exfo FOT-933X FTTx Return/Loss Tester

The Exfo FOT-933X is a specialized FTTx Return/Loss Tester designed for accurate and efficient testing of fiber-to-the-premises (FTTx) networks. It enables technicians to quickly assess return loss and optical loss in FTTx installations, ensuring optimal network performance. This tester is ideal for verifying the quality of fiber connections and identifying potential issues that could impact signal integrity. solid and user-friendly, the FOT-933X helps maintain and troubleshoot FTTx networks effectively.



MODEL

Exfo FOT-933X

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FOT-933X

LISTING

<https://aumictechlabs.com/products/fot-933x-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Exfo FOT-933X FTTx Return/Loss Tester is a field instrument designed to measure optical return loss (ORL) and optical loss in fiber-to-the-premises network deployments. It enables rapid verification of fiber optic link integrity, installation quality assessment, and identification of signal degradation sources. The tester combines ORL and loss measurement capabilities in a single portable unit, supporting efficient troubleshooting and maintenance of FTTx infrastructures. Technical Specifications Optical measurements span standard FTTx wavelengths including 1310 nm, 1490 nm, 1550 nm, and 1625 nm. The instrument provides high-precision ORL measurement with detailed resolution for identifying reflection sources. Optical loss is measured in dB across an extended dynamic range suitable for lengthy FTTx links. Event detection

distinguishes between optical events such as connectors, splices, and macrobends within the fiber link.

Key Features

- Dual-function testing: ORL and insertion loss measurement in a single instrument
- Event characterization: Identifies and analyzes optical events throughout the fiber link
- Multi-wavelength operation: 1310 nm, 1490 nm, 1550 nm, 1625 nm
- Onboard memory for test result storage
- Data transfer capability for external analysis and reporting
- Battery-powered operation with AC adapter charging option
- Intuitive field-oriented display and navigation
- Compact, lightweight design for portable deployment
- Operating and storage temperature ranges suitable for field conditions
- Humidity-resistant enclosure

Typical Applications

- FTTx network deployment verification
- Passive Optical Network (PON) commissioning
- Link quality assessment during installation
- Proactive identification of signal degradation
- Connector and splice performance evaluation
- Fiber integrity troubleshooting

Compatibility & Integration

The FOT-933X operates across industry-standard FTTx wavelengths and supports conventional ORL assessment methodologies. Test data integrates with external reporting systems through onboard memory and data export functionality.

Features & description

From manufacturer datasheet

Features

- FasTesT automated loss/ORL/length in ~10 seconds • FTTx mode with PON terminology presentation
- InGaAs detector for low-level power measurement • User-configurable pass/fail thresholds • Color 320 × 240 display; >1000 test report storage • Optional VFL (650 nm), talk set, and fiber inspection probe • Li-Ion field-swappable batteries (~9 hours) • Three-year warranty class on MaxTester family

Applications

- FTTx/PON loss and ORL at 1310/1490/1550 nm (ITU-T G.983.3) • Bidirectional insertion loss and return loss on SM links • Fiber length measurement during FasTesT • CATV and installer backreflection and loss documentation • Pairing with optional VFL, talk set, and video inspection probe

FOT933X Characteristics / Specifications

PARAMETER	VALUE
Model	FOT-933 / FOT-933X class (FOT-930 MaxTester InGaAs)
Manufacturer	EXFO
Instrument Type	Handheld Multifunction Loss / ORL / FTTx Tester
Alias	FOT-933X; FOT-933; FOT-930 MaxTester InGaAs
Detector type	InGaAs
Power measurement range	6 to -73 dBm
Power display range	down to -80 dBm
Power uncertainty	±5 % ±0.05 nW
Wavelength range detector	800 to 1650 nm
Display resolution	0.01 dB
Calibrated wavelengths	40
Automatic offset nulling	yes
Standard source wavelengths	1310 ±20 nm; 1550 ±20 nm
Standard min source power	-1/-1 dBm (High mode)
Source spectral width lasers	≤5 nm
Source stability 8 hours	±0.05 dB
FasTesT loss range standard	60 dB typical
FasTesT loss precision side by side	0.15 dB
FasTesT loss precision loopback	0.25 dB
Length measurement range SM	200 km
Length uncertainty	±(10 m + 1 % × length) for ≤120 km
ORL range APC/UPC	65/55 dB
ORL uncertainty	±0.5 dB typical
SizeHxWxD	250 mm x 125 mm x 75 mm
Weight	1 kg

PARAMETER	VALUE
Operating temperature	–10 °C to 50 °C
Storage temperature	–40 °C to 70 °C
Battery autonomy	Li-Ion 9 hours typical
Storage capacity	1024 complete tests
Warranty	3 years Notes Specs from EXFO FOT-930 MaxTester datasheets covering FOT-933 InGaAs configurations (FOT-933 / -4 / -5). Catalog title FOT-933X maps to the InGaAs MaxTester class; confirm exact ordering code and options (VFL/talk set/probe) on the unit.
Wavelength range	detector: 800 to 1650 nm
Return loss	on SM links - Fiber length measurement during FasTesT - CATV and installer backreflection and loss documentation - Pairing with optional VFL, talk set, and video inspection probe

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	−40 °C to 70 °C
Operating temperature	−10 °C to 50 °C
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Storage capacity	1024 complete tests
Warranty	3 years Notes Specs from EXFO FOT-930 MaxTester datasheets covering FOT-933 InGaAs configurations (FOT-933 / -4 / -5). Catalog title FOT-933X maps to the InGaAs MaxTester class; confirm exact ordering code and options (VFL/talk set/probe) on the unit.

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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Power measurement range	6 to -73 dBm
Power display range	down to -80 dBm
Power uncertainty	±5 % ±0.05 nW
Wavelength range detector	800 to 1650 nm
Display resolution	0.01 dB
Calibrated wavelengths	40
Automatic offset nulling	yes
Standard source wavelengths	1310 ±20 nm; 1550 ±20 nm
Option 4 source wavelengths: 1310 ±20; 1550 ±20; 1625 ±10 nm	
Option 5 source wavelengths: 1310 ±20; 1490 ±10; 1550 ±20 nm	
Specifications	
PARAMETER	VALUE
Standard min source power	-1/-1 dBm (High mode)
Source spectral width lasers	≤5 nm
Source stability 8 hours	±0.05 dB
FasTesT loss range standard	60 dB typical
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Notes

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Catalog title FOT-933X maps to the InGaAs MaxTester class; confirm exact ordering code and options (VFL/talk set/probe) on the unit.

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.