

**Aumictech**

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Data Sheet

August 14, 2026

EXFO

Exfo FVA-3100-DEI Variable Attenuator

The Exfo FVA-3100-DEI is a variable optical attenuator engineered for precise control of optical signal power across telecommunications testing and manufacturing environments. It delivers attenuation up to 100 dB with 0.01 dB resolution, supporting both singlemode and multimode fiber configurations. The instrument operates across 700 nm to 1350 nm with ultra-low insertion loss (typically 1.5 dB) and high spectral uniformity (± 0.1 dB), making it ideal for EDFA characterization, component and system loss simulation, instrument calibration, and power meter linearity measurement. Supported fiber types: Singlemode (9/125 μm), Multimode (50/125 μm , 62.5/125 μm , 100/140 μm) Calibration wavelengths: 1310 nm and 1550 nm (singlemode); 850 nm and 1300 nm (multimode) Front-panel manual control with user-defined step adjustment and direct value editing



MODEL

Exfo FVA-3100-DEI

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FVA-3100-DEI

LISTING

<https://aumictechlabs.com/products/fva-3100-dei-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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component and system loss simulation, instrument calibration, and power meter linearity measurement. Technical Specifications Attenuation range: 0–100 dB Attenuation resolution: 0.01 dB Wavelength range: 700 nm to 1350 nm Insertion loss: Typically 1.5 dB Spectral uniformity: ± 0.1 dB Supported fiber types: Singlemode (9/125 μm), Multimode (50/125 μm , 62.5/125 μm , 100/140 μm) Calibration wavelengths: 1310 nm and 1550 nm (singlemode); 850 nm and 1300 nm (multimode) Display modes: Absolute, Reference, Offset Programmable attenuation steps: Up to 100 Dwell time per step: Up to 1000 hours Operating temperature: 0 °C to 40 °C Storage temperature: –40 °C to 70 °C Relative humidity: 0 % to 80 % non-condensing Dimensions: 117 mm (H) $\times$ 222 mm (W) $\times$ 333 mm (D) Weight: 2.6 kg Key Features High repeatability and accuracy across full attenuation range Return loss limited by connector return loss Front-panel manual control with user-defined step adjustment and direct value editing GPIB (IEEE-488.1, IEEE-488.2) and RS-232 remote control LabVIEW drivers and SCPI command support Monitor output port for power-level verification at receiver (select models) Multiple connector options: FC/UPC, FC/PC, DIN 47256, HMS-10/AG, ST, SC, E-2000, and APC (singlemode) Typical Applications EDFA characterization Component and system loss simulation Instrument calibration Power meter linearity measurement Spectral tuning Automated bit-error-rate (BER) testing Linearity measurements via programmable attenuation sequencing Compatibility & Integration The FVA-3100-DEI operates as a standalone benchtop unit or integrates into 19-inch rack systems. Connector adapters such as the EXFO Universal Interface (EUI) may be required depending on fiber type and connector configuration.

FVA3100DEI Characteristics / Specifications

PARAMETER	VALUE
Model Family	FVA-3100
Queue Interface Coding	D multimode with EI interface coding
Singlemode Fiber Type Family	9/125 um onBcodes
Singlemode Wavelength Range	1200 to 1650 nm
Singlemode Max Attenuation	greater than or equal to 70 dB
Typical Return Loss Singlemode	greater than 25 dB
Maximum Input Power Singlemode	20 dBm
Shutter Isolation Singlemode	greater than 100 dB
Multimode Wavelength Range Family	700 to 1350 nm
Multimode Max Attenuation Family	greater than or equal to 65 dB
Multimode Fibers Family	50/125 62.5/125 100/140 um
Form Factor	benchtop with optional 19 inch rack
Connector Interface	EXFO EI/EA universal interface adapters
Monitor Port Family	available on BM style codes
Intended Use	loss simulation and calibration
Calibration Class	meticulous calibration for repeatable settings
Spectral Tuning Use	yes per OEM applications list
Ultra Low Insertion Loss Class	yes per OEM optimization claim
Specification Ambient Class	laboratory ambient unless OEM table states otherwise
Related Family Models	FVA-3100-B BMCDEDocumentation Source Class: EXFO FVA-3100 Variable Attenuator specification sheet
Faceplate Confirm Class	confirm exact fiber and connector codes on unit
Wavelength range	1200 to 1650 nm
Attenuation	greater than or equal to 70 dB
Return loss	Singlemode: greater than 25 dB

PARAMETER	VALUE
Fiber type	Family: 9/125 um onBcodes

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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Notes	
From EXFO FVA-3100 Variable Attenuator specification sheet family rows. Connector/fiber suffix on slug is ordering interface coding; optical limits are family verified values.	

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.