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**Data Sheet**

August 14, 2026

EXFO

## Exfo FVA-3100-B91 Variable Attenuator

The Exfo FVA-3100-B91 is a variable attenuator designed for precise control of optical signal power in fiber optic systems. It features a wide attenuation range, high resolution, and excellent repeatability. Ideal for testing and characterization of optical components and systems.



|                          |                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------|
| MODEL                    | CALIBRATION                                                                                                         |
| <b>Exfo FVA-3100-B91</b> | <b>Available on request</b>                                                                                         |
| CONDITION                | STATUS                                                                                                              |
| <b>Used</b>              | <b>In stock</b>                                                                                                     |
| RFQ / SKU                | LISTING                                                                                                             |
| <b>FVA-3100-B91</b>      | <a href="https://aumictechlabs.com/products/fva-3100-b91-2/">https://aumictechlabs.com/products/fva-3100-b91-2/</a> |

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

### This unit

The EXFO FVA-3100-B91 is a variable optical attenuator for precise control of optical signal power in singlemode fiber optic systems. It delivers attenuation ranges up to 100 dB with high resolution and repeatability, meeting the demanding requirements of laboratory and manufacturing environments. The instrument serves EDFA characterization, component and system loss simulation, instrument calibration, power meter linearity measurement, and spectral tuning applications. Technical Specifications Attenuation Range: Up to 100 dB Insertion Loss: 0.5 dB to 1.5 dB (wavelength and connector dependent) Linearity:  $\pm 0.1$  dB Spectral Uniformity:  $\pm 0.1$  dB (selected options) Wavelength Range (Singlemode): Calibrated at 1310 nm and 1550 nm; operating range 1200 to 1650 nm Fiber Type: Singlemode 9/125  $\mu$ m Connector Type: FC/UPC standard; FC/APC options available Display Modes: Absolute (including insertion loss), Reference (0.00 dB baseline), Offset (relative to user-selected reference) Program Mode: Up to 100 attenuation steps;

dwell time per step up to 1000 hours Monitor Output Port: Available on selected configurations for receiver-end power monitoring Interfaces: GPIB (IEEE-488.1, IEEE-488.2) and RS-232 serial Key Features High-quality components with meticulous calibration ensure repeatable attenuation settings Remote operation via GPIB and RS-232 enables integration with PC and test station control Programmable sequences support automated bit-error-rate (BER) testing and linearity measurements Multiple display modes accommodate absolute power tracking and relative measurement scenarios Suitable for standalone benchtop use or 19-inch rack mounting Typical Applications EDFA characterization and performance validation Component and system loss simulation Optical instrument calibration Power meter linearity verification Spectral response tuning and analysis Compatibility & Integration The FVA-3100-B91 integrates with existing test environments through standard GPIB and RS-232 interfaces. LabVIEW® drivers support rapid deployment in automated measurement systems.

## FVA3100B91 Characteristics / Specifications

| PARAMETER                         | VALUE                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------|
| Model Family                      | FVA-3100                                                                                          |
| Queue Interface Coding            | 91 SC class 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                                                                                                                                                                  |                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Specifications                                                                                                                                                                  |                                                                                                   |
| PARAMETER                                                                                                                                                                       | VALUE                                                                                             |
| Model Family                                                                                                                                                                    | FVA-3100                                                                                          |
| Queue Interface Coding                                                                                                                                                          | 91 SC class 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                                                                                    |
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| 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                                                   |
| 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](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto: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.