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Data Sheet
August 14, 2026

ANDO

Ando AQ8201-31B

The Ando AQ8201-31B is a plug-in module designed for the AQ8201 series of optical test equipment. This module enhances the capabilities of the main unit, providing advanced testing functionalities for optical communication systems and components. It is engineered to deliver precise and reliable measurements, ensuring optimal performance and compliance with industry standards.

MODEL Ando AQ8201-31B	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU AQ8201-31B	LISTING https://aumictechlabs.com/products/aq8201-31b-3/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Ando AQ8201-31B is a plug-in optical attenuator module engineered to extend the measurement capabilities of Ando AQ8201 series mainframes. It delivers precise, repeatable optical attenuation across the C and L bands, making it essential for characterizing optical components, subsystems, and communication links with high accuracy and stability. Technical Specifications Wavelength Range: 1200 nm to 1600 nm Maximum Attenuation: 60 dB Attenuation Step Resolution: 0.05 dB Optical Return Loss: ≥ 60 dB (1310–1550 nm) Maximum Input Power: +23 dBm Insertion Loss: ≤ 2.5 dB (1310/1550 nm) Linearity: ± 0.1 dB (1310/1550 nm) Repeatability: ± 0.02 dB Optical Connector: FC/APC Supported Fiber: Single-mode (SM) 9/125 µm Key Features Fine 0.05 dB attenuation granularity enables precise optical power control and measurement validation across wide dynamic range scenarios. Exceptional ± 0.02 dB repeatability and ± 0.1 dB

linearity ensure consistent, traceable results for production testing and compliance verification. High optical return loss (≥ 60 dB) minimizes back-reflection artifacts in sensitive measurements. Low insertion loss (≤ 2.5 dB) preserves signal integrity in cascaded test setups. Standard FC/APC connectors simplify field deployment and reduce insertion-related uncertainty. Typical Applications Optical receiver sensitivity and dynamic range characterization Transceiver and module power compliance testing Optical link loss budgeting and validation Component attenuation measurement and verification Signal path validation in optical test benches Compatibility & Integration The AQ8201-31B integrates directly into Ando AQ8201A, AQ8203, AQ8202, and AQ8204 measurement systems as a plug-in module. It operates across the wavelength band from 1200 nm to 1600 nm, accommodating standard single-mode fiber (9/125 µm). Units ship with NIST-traceable calibration certificates and measurement data.

AQ820131B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Plug in optical light source module
Module Family	AQ8201-31B
Host Mainframe	AQ8203 / AQ8201 class frames
Source Type	Laser diode CW source class
Wavelength Class	Telecom window wavelength class per module sheet
Output Power Class	Calibrated dBm output class
Output Stability Class	High short term stability class
Spectral Width Class	Narrow LD spectral width class
Remote Interface	GPIB via mainframe
Form Factor	Single slot plug in module
Connector Class	FC SC interchangeable adapters class
Fiber Type	Single mode
Series Family	Ando AQ8201-31B optical source modules
Applications Class	Optical loss and component stimulus
Calibration	Module level optical calibration class
Power	Supplied by host mainframe
Operating Temperature Class	Standard lab
Safety	Optical source enable interlock class
Modulation Class	CW with optional modulation class by config
Return Loss Sensitivity Class	High return loss tolerant output class
Repeatability Class	High power setting repeatability class
Resolution Class	Fine power set resolution class
Operating temperature	Class: Standard lab
Return loss	Sensitivity Class: High return loss tolerant output class

AQ820131B Specifications

PARAMETER	VALUE
LD light source plug in module B suffix	Installs in AQ8203 or AQ8201 mainframe
GPIB control via mainframe	Stable CW telecom wavelength output
Technical Specifications	Instrument Type: Plug in optical light source module

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab
Operating Temperature	Class: Standard lab
Operating Temperature Class	Standard lab
Safety	Optical source enable interlock class
Modulation Class	CW with optional modulation class by config
Return Loss Sensitivity Class	High return loss tolerant output class
Repeatability Class	High power setting repeatability class
Resolution Class	Fine power set resolution class Notes From Ando AQ8201-31B optical source module OEM/family documentation. Confirm exact wavelength and output power on the B-suffix module datasheet.

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
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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

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