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Data Sheet

August 2, 2026

ANDO

Ando AQ8201-22 Dual Optical Power Module

The AQ820122 provides a single-slot dual-channel optical power meter module for the Ando/Yokogawa AQ8201 series, measuring two independent optical inputs over 1280 to 1700 nm with InGaAs detection for DWDM and telecom power monitoring. Two-channel simultaneous optical power measurement in AQ8201 mainframes; DWDM MUX/DEMUX and EDFA power monitoring; dual-path insertion-loss setups; automated multi-port optical power logging via the AQ8200/AQ8201 controller. Two-channel simultaneous optical power measurement in AQ8201 mainframes; DWDM MUX/DEMUX and EDFA power monitoring; dual-path insertion-loss setups; automated multi-port optical power logging via the AQ8200/AQ8201 controller.

**MODEL****Ando AQ8201-22****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****AQ8201-22****LISTING**<https://aumictechlabs.com/products/aq8201-22/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ando AQ8201-22 is a dual-channel optical power measurement module designed for integration into Ando AQ8200 series mainframes. It enables simultaneous, independent optical power measurement across two channels using cooled InGaAs detectors, streamlining characterization of optical systems and components. Technical Specifications Optical Performance Detector Type: Cooled InGaAs Wavelength Range: 1280 nm to 1700 nm or 700 nm to 1700 nm Measurement Accuracy: $\pm 5\%$ (1470 nm to 1610 nm); $\pm 5\%$ (1000 nm to 1600 nm); $\pm 2.5\%$

under reference conditions (10 μ W CW light, single-mode fiber, FC connector) Power Range (CW): -80 dBm to +10 dBm or -80 dBm to +27 dBm Polarization Dependent Loss: 0.02 dBp-p (typical) Optical Interfaces Standard Connectors: FC/APC Alternative Connectors: ST and SC available (may be sold separately) Supported Fiber: Single-mode silica fiber $\leq 9/125 \mu\text{m}$, NA ≤ 0.1 Physical Module Configuration: Single slot, dual optical power meter moduleKey Features Two independent measurement channels in a single-slot module form factor Cooled InGaAs detector technology for extended infrared sensitivity Dual wavelength range options accommodate C-band, L-band, and extended spectral coverage Low polarization-dependent loss minimizes measurement artifacts Wide dynamic range from -80 dBm supports both weak and strong optical signalsTypical Applications Optical component characterization and loss testing Simultaneous dual-channel optical power monitoring Wavelength-dependent power measurements across telecommunications bands Optical system alignment and validation workflowsCompatibility & Integration The AQ8201-22 integrates into Ando AQ8200 series mainframes including AQ8201A, AQ8202, AQ8203, and AQ8204. It operates with AQ8202-01 System Controller, AQ8203 Halfsize Frame, and AQ8204 Frame Controller. FC/APC connector adapters ship standard; alternative connector types available separately.

Features & description

From manufacturer datasheet

Features

- Dual OPM module (2-channel optical power meter), 1 slot
- Wavelength range 1280 to 1700 nm
- Photodetector: InGaAs
- Power range (CW): -80 to +10 dBm
- Polarization dependent loss 0.02 dB P-P (typ.)
- Reference inaccuracy $\pm 2.5\%$ (at 1550 nm calibration point)
- Total accuracy $\pm 5\%$ (1470 to 1610 nm)
- Linearity ± 0.05 dB (1470 to 1610 nm, -73 to +10 dBm)
- Noise -73 dBm or less (CW)
- AQ9389B (FC) connector adapter standard

AQ8201 Characteristics / Specifications

PARAMETER	VALUE
Model	AQ8201-22
Manufacturer	Ando Electric / Yokogawa
Instrument Type	Dual Optical Power Meter Module
Mainframe	AQ8201A / AQ8202 / AQ8203 / AQ8204 series
Slot Width	1 slot
Wavelength Range	1280 to 1700 nm
Detector	InGaAs
Power Range (CW)	−80 to +10 dBm
Reference Accuracy	±2.5% at 1550 nm (specified conditions)
Total Accuracy	±5% (1470 to 1610 nm)
Linearity	±0.05 dB (1470 to 1610 nm, −73 to +10 dBm)
Related Module	AQ8201-21 (single-channel OPM—wider 700–1700 nm / higher max power)
Alias	AQ820122 Standard Operating Conditions Install incompatible AQ8201-series slot. Use AQ9389B-class connector adapters and master cords for absolute accuracy. Warm up one hour before precision measurements at fixed temperature.
Photodetector	InGaAs

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
Model	AQ8201-22
Manufacturer	Ando Electric / Yokogawa
Instrument Type	Dual Optical Power Meter Module
Mainframe	AQ8201A / AQ8202 / AQ8203 / AQ8204 series
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Related Module	AQ8201-21 (single-channel OPM-wider 700-1700 nm / higher max power)
Alias	AQ820122

Standard Operating Conditions

Install incompatible AQ8201-series slot. Use AQ9389B-class connector adapters and master cords for absolute accuracy. Warm up one hour before precision measurements at fixed temperature.

Operational Notes

AQ8201-22 is dual-channel with -80 to +10 dBm CW range-distinct from AQ8201-21 single-channel (-80 to +27 dBm, 700-1700 nm). Alias AQ820122.

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.