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Data Sheet

August 14, 2026

ANDO

Ando AQ-2105 Optical Power Meter Mainframe

The Ando AQ-2105 is an optical power meter mainframe designed for high-precision optical power measurements. It accepts various sensor heads to accommodate different wavelengths and power ranges. Ideal for research, development, and manufacturing environments, it offers reliable and accurate performance.



MODEL

Ando AQ-2105

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ-2105

LISTING

<https://aumictechlabs.com/products/aq-2105-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ando AQ-2105 is a 2-channel optical power meter mainframe that is a modular platform for plug-in OPM units and sensor modules. It delivers precise optical power measurements across research, manufacturing, telecommunications, and field service applications. The instrument accepts interchangeable sensor heads via FC/PC connectors, stores up to 1,500 measured values per channel, and supports both laboratory AC and field-deployable DC operation. Dual analog outputs and GPIB remote control enable integration into automated test systems and production environments. Technical Specifications Channels: 2-channel simultaneous measurement Display: 5 decimal digits per channel; selectable units in dBm, mW, pW, or dB Display Resolution: 0.1 dB / 0.01 dB / 0.001 dB (dBm mode) Measurement Values: Up to 1,500 per channel in non-volatile memory Calibration Factor: Accepts log, linear, or wavelength (nm) input Wavelength Range (with AQ-2715 module): 750–1700 nm Power Measurement Range (with AQ-2715 module, 1300 nm):

–90 to 0 dBm Display Format: Absolute or relative mode; bar graph overlay per channel

Key Features Compact 2-slot mainframe chassis Dual analog outputs for external logging or instrument control GPIB remote interface for bench automation and data acquisition AC mains (commercial outlet) or DC power supply (–10.2 to –13.8 V DC @ 1.5 A) Modular plug-in architecture accommodates OPM units and sensor modules

Typical Applications Optical loss and insertion loss measurement (paired with light source) Fiber optic network commissioning and maintenance Component characterization and R&D validation Manufacturing quality assurance Optical communications system testing

Compatibility & Integration The AQ-2105 accepts plug-in units including the AQ-2109 OPM, AQ-2715 Power Sensor Module, AQ-4142 Module, and AQ-2107 OPM. FC/PC optical interfaces and connector/bare-fiber adapters are available separately. Field deployment is supported via DC power; laboratory use benefits from AC mains flexibility.

Features & description

From manufacturer datasheet

Polarization Dependence Class: Low PDL sensor class

Damage Level Class: Specified maximum input power class Settling Time Class: Fast power settling class Storage: Measurement memory class Zeroing: Sensor dark zero function class Notes From Ando AQ-2105 OEM/family optical power meter documentation. Confirm exact sensor wavelength/power range on the paired sensor datasheet.

AQ2105 Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Optical power meter
Wavelength Range Class	800 nm to 1700 nm class typical
Power Range Class	Plus 10 dBm to minus 70 dBm class typical
Power Accuracy Class	Calibrated optical power accuracy class
Resolution Class	0.01 dB or 0.001 dB class
Linearity Class	Specified power linearity class
Display Units	dBmWRemote Interface Class: GPIB class
Form Factor	Benchtop optical power meter class
Connector Class	Sensor adapter FC SC class
Fiber Type	Single mode and multimode adapter class
Series Family	Ando AQ-2105
Applications Class	Optical power measurement
Calibration	Optical power calibration class
Operating Temperature Class	Standard lab
Primary Power	AC mains or battery class
Averaging	Multiple averaging modes class
Polarization Dependence Class	Low PDL sensor class
Damage Level Class	Specified maximum input power class
Settling Time Class	Fast power settling class
Storage	Measurement memory class
Zeroing	Sensor dark zero function class
Wavelength range	Class: 800 nm to 1700 nm class typical
Power linearity	class
Operating temperature	Class: Standard lab

AQ2105 Specifications

PARAMETER	VALUE
Interchangeable sensor head class	dBm and W display units
Technical Specifications	Instrument Type: Optical power meter
Notes	From Ando AQ-2105 OEM/family optical power meter documentation. Confirm exact sensor wavelength/power range on the paired sensor datasheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab
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Operating Temperature Class	Standard lab
Primary Power	AC mains or battery class
Averaging	Multiple averaging modes class
Polarization Dependence Class	Low PDL sensor class
Damage Level Class	Specified maximum input power class
Settling Time Class	Fast power settling class
Storage	Measurement memory class
Zeroing	Sensor dark zero function class Notes From Ando AQ-2105 OEM/family optical power meter documentation. Confirm exact sensor wavelength/power range on the paired sensor 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

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.