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**Data Sheet**

August 14, 2026

ANDO

# Ando AQ2141 Optical Multimeter Expansion Frame

Ando AQ2141 Optical Multimeter / Mainframe The Ando AQ2141 is an optical multimeter/mainframe in the Ando AQ214x family for optical power and loss measurements with plug-in sensor and source modules. OEM AQ2140/AQ2141 documentation lists modular optical measurement architectures with GPIB control. Optical power and loss measurement, modular optical bench testing, and production optical characterization. Instrument Type: Optical multimeter / modular mainframe The Ando AQ2141 is an optical multimeter/mainframe in the Ando AQ214x family for optical power and loss measurements with plug-in sensor and source modules. OEM AQ2140/AQ2141 documentation lists modular optical measurement architectures with GPIB control. Optical power and loss measurement, modular optical bench testing, and production optical characterization. Instrument Type: Optical multimeter / modular mainframe Module Support Class: Optical sensor and source modules class



MODEL

**Ando AQ2141**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**AQ2141**

LISTING

<https://aumictechlabs.com/products/aq2141-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Ando AQ2141 Optical Multimeter Expansion Frame is a modular chassis that can extend the measurement capabilities of the Ando AQ2140 Optical Multimeter. It accommodates up to four optical measurement modules per frame - including sensor units, OPM units, light source units,

and ASE or LD units - enabling scalable multi-channel optical testing configurations. A single AQ2140 supports up to four AQ2141 frames, delivering a maximum of 16 external channels. The frame operates in manual mode with common settings applied across all units, or via GP-IB for individual unit control. When equipped with light source units, the AQ2141 functions as a multi-channel light source; however, ATT function and 1 kHz or 2 kHz chopped light operation are not supported in standalone mode.

**Technical Specifications**

**Chassis Architecture** 4 channels maximum per AQ2141 frame Up to four frames connectable to a single AQ2140 unit Total system capacity: 16 external channels

**Supported Module Types**

**Sensor Units** OPM Units (Optical Power Meter) Light Source Units ASE Units (e.g., Ando AQ4310B) LD Units (e.g., Ando AQ4211, AQ4214)

**Power Measurement Performance** CW light: -90 to 0 dBm with typ. 0.02 dB P-P Chopped light: -60 to +10 dBm (1 nW to 10 mW) with typ. 0.03 dB P-P

**Operational Modes** Manual: Common wavelength, averaging, and reference level settings across all units, with individual unit override capability GP-IB: Individual unit settings for automated control

**Key Features** Light source units may be freely mixed within the frame Mounted sensor or OPM units must be of identical type for correct operation Optical return loss measurement units supported Older sensor and OPM units may require factory software updates for compatibility

**Typical Applications** Multi-channel fiber loss measurement (e.g., 8-core tape fiber configurations) Research and development optical testing Manufacturing environments requiring versatile measurement configurations

**Compatibility & Integration** The AQ2141 expands the AQ2140 Optical Multimeter platform, allowing users to build scalable measurement systems without replacing core instrumentation. Wavelength range and polarization dependency loss specifications depend on the specific light source and sensor units installed.

## AQ2141 Characteristics / Specifications

| PARAMETER                   | VALUE                                       |
|-----------------------------|---------------------------------------------|
| Instrument Type             | Optical multimeter / modular mainframe      |
| Platform Name               | AQ2141                                      |
| Module Support Class        | Optical sensor and source modules class     |
| Wavelength Support Class    | Telecom wavelength modules class            |
| Power Measurement Class     | Calibrated optical power class              |
| Remote Interface            | GPIB                                        |
| Form Factor                 | Benchtop modular mainframe                  |
| Display                     | Mainframe measurement display class         |
| Series Family               | Ando AQ2141 / AQ2140 optical multimeters    |
| Applications Class          | Optical power and loss measurement          |
| Primary Power               | AC mains laboratory supply class            |
| Cooling                     | Fan cooled class                            |
| Optical Connectors Class    | Via installed modules                       |
| Calibration                 | Module level optical calibration class      |
| Operating Temperature Class | Standard lab                                |
| Weight Class                | Benchtop mainframe weight                   |
| Automation                  | Remote command control class                |
| Storage                     | Setup memory class                          |
| Safety Interlock Class      | Optical source safety class via modules     |
| Resolution Class            | Fine optical power resolution class         |
| Dynamic Range Class         | Wide optical power dynamic range class      |
| Warmup Time Class           | 15 minutes typical class                    |
| Relative Humidity Class     | Up to 80 percent noncondensing class        |
| Operating temperature       | Class: Standard lab                         |
| Humidity                    | Class: Up to 80 percent noncondensing class |

# General Specifications & Supplementary Characteristics

| PARAMETER                   | VALUE                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature       | Class: Standard lab                                                                                                                                                                                       |
| Operating Temperature       | Class: Standard lab                                                                                                                                                                                       |
| Humidity                    | Class: Up to 80 percent noncondensing class                                                                                                                                                               |
| Operating Temperature Class | Standard lab                                                                                                                                                                                              |
| Weight Class                | Benchtop mainframe weight                                                                                                                                                                                 |
| Automation                  | Remote command control class                                                                                                                                                                              |
| Storage                     | Setup memory class                                                                                                                                                                                        |
| Safety Interlock Class      | Optical source safety class via modules                                                                                                                                                                   |
| Resolution Class            | Fine optical power resolution class                                                                                                                                                                       |
| Dynamic Range Class         | Wide optical power dynamic range class                                                                                                                                                                    |
| Warmup Time Class           | 15 minutes typical class                                                                                                                                                                                  |
| Relative Humidity Class     | Up to 80 percent noncondensing class Notes From Ando AQ2141 OEM/family optical multimeter documentation. Exact performance depends on installed sensor/source modules; confirm configuration on the unit. |

# 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                                    |
| Instrument Type                                                                                                                                                | Optical multimeter / modular mainframe   |
| Platform Name                                                                                                                                                  | AQ2141                                   |
| Module Support Class                                                                                                                                           | Optical sensor and source modules class  |
| Wavelength Support Class                                                                                                                                       | Telecom wavelength modules class         |
| Power Measurement Class                                                                                                                                        | Calibrated optical power class           |
| Remote Interface                                                                                                                                               | GPIB                                     |
| Form Factor                                                                                                                                                    | Benchtop modular mainframe               |
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| Series Family                                                                                                                                                  | Ando AQ2141 / AQ2140 optical multimeters |
| Applications Class                                                                                                                                             | Optical power and loss measurement       |
| Primary Power                                                                                                                                                  | AC mains laboratory supply class         |
| Cooling                                                                                                                                                        | Fan cooled class                         |
| Optical Connectors Class                                                                                                                                       | Via installed modules                    |
| Calibration                                                                                                                                                    | Module level optical calibration class   |
| Operating Temperature Class                                                                                                                                    | Standard lab                             |
| Weight Class                                                                                                                                                   | Benchtop mainframe weight                |
| Automation                                                                                                                                                     | Remote command control class             |
| Storage                                                                                                                                                        | Setup memory class                       |
| Safety Interlock Class                                                                                                                                         | Optical source safety class via modules  |
| Resolution Class                                                                                                                                               | Fine optical power resolution class      |
| Dynamic Range Class                                                                                                                                            | Wide optical power dynamic range class   |
| Warmup Time Class                                                                                                                                              | 15 minutes typical class                 |
| Relative Humidity Class                                                                                                                                        | Up to 80 percent noncondensing class     |
| Notes                                                                                                                                                          |                                          |
| From Ando AQ2141 OEM/family optical multimeter documentation. Exact performance depends on installed sensor/source modules; confirm configuration on the unit. |                                          |

### 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

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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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.