

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

ANDO

Ando AQ2742 Optical Power Sensor, 750-1800nm with calibration

Ando AQ2742 Optical Power Sensor, 750-1800nm with calibration, Calibrated optical power sensor covering a wide range of 750–1800nm wavelengths. Delivers accurate power measurements for diverse optical signals in testing environments. Suitable for use in telecom, datacom, and lab applications requiring precision and repeatability.



MODEL

Ando AQ2742

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ2742

LISTING

<https://aumictechlabs.com/products/aq2742-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Ando AQ2742 Optical Power Sensor delivers calibrated optical power measurements across the 750nm to 1800nm wavelength range. Designed for telecommunications, datacom, and laboratory environments, this sensor provides the precision and repeatability required in demanding test applications. It measures both continuous wave and chopped light signals, supporting fiber optic characterization across a broad spectrum. Technical Specifications Wavelength Range: 750nm to 1800nm Measurement Type: Optical power sensing (CW and chopped light) Calibration: Factory calibrated Typical Power Measurement Accuracy: 0.03 dB P-P (for specified ranges and wavelengths) Reference Condition Temperature: 23±1°C or 23±5°C (depending on sensor unit) Key Features Broad spectral coverage spanning near-infrared through short-wavelength infrared regions Repeatable measurements across multiple fiber optic signal

types Compatible with standard fiber optic connectors including FC, SC, ST, DIN, and HMS-10/A adapters High return loss connector options available (e.g., AQ9438 for FC connectors: ≥ 40 dB return loss, ≤ 0.2 dB insertion loss for single-mode fiber) Single-wavelength linearity specification included in total measurement accuracy Typical Applications Telecommunications system testing and validation Datacom link characterization Laboratory-grade optical power measurements Multi-wavelength fiber optic signal verification Compatibility & Integration The AQ2742 sensor integrates with Ando optical multimeter expansion frames including the AQ2140 and AQ2141 for extended measurement capabilities. Multiple connector adapter options enable compatibility across diverse fiber termination styles.

Features & description

From manufacturer datasheet

Technical Specifications

Wavelength Range: 750nm to 1800nm Measurement Type: Optical power sensing (CW and chopped light) Calibration: Factory calibrated Typical Power Measurement Accuracy: 0.03 dB P-P (for specified ranges and wavelengths) Reference Condition Temperature: 23±1°C or 23±5°C (depending on sensor unit)

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Ando AQ2742 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Ando AQ2742. Calibration covers detector responsivity across all specified wavelengths (typically 800-1700 nm range), absolute power accuracy, and EEPROM calibration coefficient update. Compatible with Agilent/HP 8163A/B, 8164A/B, and 8166A/B mainframes.. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Common Ando AQ2742 faults: FC/PC connector damage, EEPROM failure (mainframe shows unrecognized sensor), reduced responsivity. Common faults include FC/PC input connector damage, EEPROM failure causing the module to appear unrecognized by the mainframe, and reduced detector responsivity from contamination. [Request Calibration](#) → [Request Repair Quote](#) →

Ando AQ2742 price

This Ando AQ2742 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Ando AQ2742 calibration cost

NIST-traceable calibration for the Ando AQ2742 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Calibration for this instrument covers detector responsivity across all specified wavelengths (typically 800-1700 nm range), absolute power accuracy, and EEPROM calibration coefficient update. Compatible with Agilent/HP 8163A/B, 8164A/B, and 8166A/B mainframes.. Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

Telecommunications system testing and validation Datacom link characterization Laboratory-grade optical power measurements Multi-wavelength fiber optic signal verification Compatibility & Integration The AQ2742 sensor integrates with Ando optical multimeter expansion frames including the AQ2140 and AQ2141 for extended measurement capabilities. Multiple connector adapter options enable compatibility across diverse fiber termination styles.

Unit notes

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Technical Specifications

Wavelength Range: 750nm to 1800nm
Measurement Type: Optical power sensing (CW and chopped light)
Calibration: Factory calibrated
Typical Power Measurement Accuracy: 0.03 dB P-P (for specified ranges and wavelengths)
Reference Condition Temperature: 23±1°C or 23±5°C (depending on sensor unit)

Key Features

Broad spectral coverage spanning near-infrared through short-wavelength infrared regions
Repeatable measurements across multiple fiber optic signal types
Compatible with standard fiber optic connectors including FC, SC, ST, DIN, and HMS-10/A adapters
High return loss connector options available (e.g., AQ9438 for FC connectors: ≥40 dB return loss, ≤0.2 dB insertion loss for single-mode fiber)
Single-wavelength linearity specification included in total measurement accuracy

Typical Applications

Telecommunications system testing and validation
Datacom link characterization
Laboratory-grade optical power measurements
Multi-wavelength fiber optic signal verification
Compatibility & Integration

The AQ2742 sensor integrates with Ando optical multimeter

AQ2742 Specifications

PARAMETER	VALUE
Wavelength Range	750nm to 1800nm

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.

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Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

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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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
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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.