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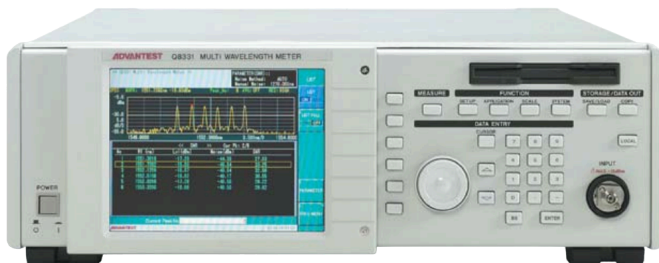
Data Sheet

August 14, 2026

ADVANTEST

Advantest Q8331 1270nm-1680nm Multi Wavelength Meter

The Advantest Q8331 is a Michelson multi-wavelength meter for DWDM signals. OEM Q8331-1E tables list 1270 to 1680 nm coverage, plus or minus 1 ppm wavelength accuracy (1.5 pm at 1550 nm) from a He-Ne reference, 10 GHz high-resolution channel separation, and simultaneous measurement of up to 300 channels. DWDM channel wavelength and power, ITU grid deviation, and long-term wavelength/power trend recording. He-Ne referenced plus or minus 1 ppm accuracy 0.5 s normal / 1 s high resolution sampling Line Power: 100 to 120 VAC and 220 to 240 VAC 50/60 Hz 120 VA or less Dimensions: approx 132 H x 424 W x 500 D mm Operating Temperature: plus 10 to plus 40 C 85 percent RH max no condensation From Advantest Q8331-1E August 2002 specification tables. He-Ne reference holds plus or minus 1 ppm without periodic recalibration of the wavelength scale.



MODEL

Advantest Q8331

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

Q8331

LISTING

<https://aumictechlabs.com/products/q8331-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest Q8331 is a precision optical wavelength meter designed for accurate characterization of signals across the 1270 nm to 1680 nm band. It delivers the measurement resolution and repeatability required for optical communication systems, fiber optic networks, and optical component manufacturing. A single measurement channel, 7-inch color TFT display, and

multiple data interfaces support both laboratory and production workflows. Technical Specifications Wavelength Range: 1270 nm to 1680 nm Wavelength Accuracy: ± 2 pm Wavelength Repeatability: ± 0.5 pm Measurement Accuracy: ± 0.2 ppm (typical) Measurement Repeatability: ± 0.5 ppm Measurement Resolution: 0.1 pm Input Power Range: -70 dBm to $+20$ dBm Dynamic Range: 65 dB Measurement Channels: 1 Key Features 7-inch color TFT LCD display for real-time measurement visualization Universal optical connectivity: FC/PC standard connector with SC/PC option Multiple data interfaces: USB, Ethernet, RS-232C for system integration and data logging Compact footprint: 426 mm (W) $\times$ 132 mm (H) $\times$ 355 mm (D), weighing 10 kg AC power supply: 100–240 V, 50/60 Hz Typical Applications WDM (Wavelength Division Multiplexing) system verification and troubleshooting Optical component production and quality assurance Laser and tunable source characterization Fiber optic network deployment and maintenance Compatibility & Integration The Q8331 supports direct integration into automated test systems via USB, Ethernet, and RS-232C interfaces. Its single-channel architecture and standardized optical connector options accommodate both laboratory benches and manufacturing floors. FC/PC connectors are standard; SC/PC adapters are available for system-specific configurations.

Features & description

From manufacturer datasheet

Polarization Dependency: plus or minus 0.3 dB 1270 to 1600 nm

Level Display Resolution: 0.01 dB Maximum Input Lines: 300 Measurement Time Normal: 0.5 s normal resolution mode Measurement Time High: 1 s high resolution mode Signal To Noise: 35 dB Applicable Fiber: 9.5/125 μ m SM Reflective Attenuation: 35 dB Remote Interface: GPIB IEEE 488.2 Ethernet 10BASE-T Display: 6.5 inch color LCD 640 $\times$ 480 Line Power: 100 to 120 VAC and 220 to 240 VAC 50/60 Hz 120 VA or less Dimensions: approx 132 H x 424 W x 500 D mm Mass: 13 kg or less Operating Temperature: plus 10 to plus 40 C 85 percent RH max no condensation Notes From Advantest Q8331-1E August 2002 specification tables. He-Ne reference holds plus or minus 1 ppm without periodic recalibration of the wavelength scale.

Q8331 Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range	1270 to 1680 nm
Wavelength Accuracy	plus or minus 1 ppm (1.5 pm at 1550 nm)
Resolvable Separation High	10 GHz high resolution mode
Resolvable Separation Normal	20 GHz normal resolution mode
Display Resolution Wavelength	0.1 pm
Display Units Wavelength	nm vac/air and THz
Level Accuracy	plus or minus 0.5 dB at 1310 nm and 1550 nm
Level Linearity	plus or minus 0.3 dB at minus 30 dBm or more 1550 nm
Level Flatness	plus or minus 0.2 dB 1520 to 1600 nm
Level Sensitivity 1270 to 1600 nm	minus 40 dBm
Level Sensitivity 1600 to 1680 nm	minus 30 dBm
Maximum Input Power	plus 10 dBm total input lines
Polarization Dependency	plus or minus 0.3 dB 1270 to 1600 nm
Level Display Resolution	0.01 dB
Maximum Input Lines	300
Measurement Time Normal	0.5 s normal resolution mode
Measurement Time High	1 s high resolution mode
Signal To Noise	35 dB
Applicable Fiber	9.5/125 um SM
Reflective Attenuation	35 dB
Remote Interface	GPIB IEEE 488.2 Ethernet 10BASE-T
Display	6.5 inch color LCD 640 × 480
Line Power	100 to 120 VAC and 220 to 240 VAC 50/60 Hz 120 VA or less
Dimensions	approx 132 H x 424 W x 500 D mm
Mass	13 kg or less

PARAMETER

VALUE

Operating Temperature

plus 10 to plus 40 C 85 percent RH max no condensation

Attenuation

35 dB

Q8331 Specifications

PARAMETER	VALUE
Advantest Q8331 Multi Wavelength Meter	Overview
Key Features	He-Ne referenced plus or minus 1 ppm accuracy
Up to 300 simultaneous WDM channels	0.5 s normal / 1 s high resolution sampling
Technical Specifications	Wavelength Range: 1270 to 1680 nm

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 10 to plus 40 C 85 percent RH max no condensation
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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
Wavelength Range	1270 to 1680 nm
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Resolvable Separation High	10 GHz high resolution mode
Resolvable Separation Normal	20 GHz normal resolution mode
Display Resolution Wavelength	0.1 pm
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Level Accuracy	plus or minus 0.5 dB at 1310 nm and 1550 nm
Level Linearity	plus or minus 0.3 dB at minus 30 dBm or more 1550 nm
Level Flatness	plus or minus 0.2 dB 1520 to 1600 nm
Level Sensitivity 1270 to 1600 nm	minus 40 dBm
Level Sensitivity 1600 to 1680 nm	minus 30 dBm
Maximum Input Power	plus 10 dBm total input lines
Polarization Dependency	plus or minus 0.3 dB 1270 to 1600 nm
Level Display Resolution	0.01 dB
Maximum Input Lines	300
Measurement Time Normal	0.5 s normal resolution mode
Measurement Time High	1 s high resolution mode
Signal To Noise	35 dB
Applicable Fiber	9.5/125 um SM
Reflective Attenuation	35 dB
Remote Interface	GPIO IEEE 488.2 Ethernet 10BASE-T
Display	6.5 inch color LCD 640 x 480
Line Power	100 to 120 VAC and 220 to 240 VAC 50/60 Hz 120 VA or less
Dimensions	approx 132 H x 424 W x 500 D mm
Mass	13 kg or less
Operating Temperature	plus 10 to plus 40 C 85 percent RH max no condensation

Notes

From Advantest Q8331-1E August 2002 specification tables. He-Ne reference holds plus or minus 1 ppm without periodic recalibration of the wavelength scale.

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