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Data Sheet

August 14, 2026

ADVANTEST

Advantest Q8326 480nm-1650nm Optical Wavelength Meter

Advantest Q8326 Optical Wavelength Meter 480 nm to 1650 nm The Advantest Q8326 isaMichelson interferometer optical wavelength meter using an internal He-Ne laser reference. OEM Q8326-4Ea datasheet lists 480 to 1650 nm (181 to 625 THz), plus or minus 2 ppm plus 1 count accuracy, 0.001 nm / 100 MHz resolution (0.0001 nm in average mode), five measurements per second, and a 300 × 132 × 450 mm 10.5 kg 60 VA package. DWDM LD wavelength adjustment, spectroscopy wavelength standard, and automated LD temperature/current wavelength characterization. The Advantest Q8326 isaMichelson interferometer optical wavelength meter using an internal He-Ne laser reference. OEM Q8326-4Ea datasheet lists 480 to 1650 nm (181 to 625 THz), plus or minus 2 ppm plus 1 count accuracy, 0.001 nm / 100 MHz resolution (0.0001 nm in average mode), five measurements per second, and a 300 × 132 × 450 mm 10.5 kg 60 VA package. DWDM LD wavelength adjustment, spectroscopy wavelength standard, and automated LD temperature/current wavelength characterization. Accuracy: plus or minus 2 ppm plus 1 count for SM laser 10 GHz or less linewidth



MODEL

Advantest Q8326

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

Q8326

LISTING

<https://aumictechlabs.com/products/q8326-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest Q8326 is a precision optical wavelength meter for direct measurement of laser and LED wavelengths across the 480 nm to 1650 nm range. Using Michelson interference with a He-Ne reference laser, it delivers ± 2 ppm ± 1 count absolute accuracy and supports display resolution from 1 nm down to 0.0001 nm. The instrument provides continuous sampling at 5 Hz with 0.2 sec measurement time, plus moving-average and deviation functions for signal analysis.

Technical Specifications
Wavelength Range: 480 nm to 1650 nm
Wavelength Absolute Accuracy: ± 2 ppm ± 1 count
Wavelength Display Resolution: 1 nm to 0.0001 nm
Frequency Range: 181 THz to 625 THz
Maximum Input Level: +10 dBm
Level Sensitivity: -15 dBm (480–600 nm), -25 dBm (600–1650 nm), -30 dBm (1200–1650 nm)
Sampling Rate: 5 measurements/sec
Measurement Time: 0.2 sec
Input Voltage: 90 V to 250 V AC, 48 Hz to 66 Hz
Power Consumption: 60 VA or below
Laser Classification: Class 1

Key Features
Moving-average function with count of 10 for signal smoothing
Deviation measurement function referenced to standard values
GPIB interface for instrument control and data logging
Analog D/A conversion output standard
Dual-fiber input support: 9/125 μ m SM and 50/125 μ m GI
Horizontal-position operation with forced-air cooling

Typical Applications
Optical communications systems, DWDM channel validation, laser oscillation-wavelength tuning and verification, LED spectral characterization, and frequency stability monitoring across the near-infrared and visible spectrum.

Compatibility & Integration
GPIB connectivity enables integration into automated test environments. Analog output allows parallel data acquisition on external instrumentation. Requires 90–250 V AC supply, 48–66 Hz; operates to 2000 m altitude in pollution degree 2 environments with proper grounding.

Q8326 Characteristics / Specifications

PARAMETER	VALUE
Model	Q8326
Wavelength Range	480 nm to 1650 nm
Frequency Range	181 THz to 625 THz
Accuracy	plus or minus 2 ppm plus 1 count for SM laser 10 GHz or less linewidth
Accuracy Below 600 nm	plus or minus 5 ppm
Display Resolution	1 nm to 0.0001 nm
High Resolution	0.001 nm / 100 MHz
Average Mode Resolution	0.0001 nm / 10 MHz
Sensitivity 480 to 600 nm	minus 15 dBm
Sensitivity 600 to 1650 nm	minus 25 dBm
Sensitivity 1200 to 1600 nm	minus 30 dBm
Max Input Level	plus 10 dBm
Measurement Duration	0.2 seconds
Sampling Rate	five measurements per second
Average Function	moving average of 10 measurements
Deviation Function	deviation from reference measurement
Short Band Switch	480 to 1000 nm
Long Band Switch	1000 to 1650 nm
Applicable Fiber GI	50/125 um
Applicable Fiber SM	9.5/125 um recommended
Connector Standard	FC user replaceable ST SC optional
GPIB	IEEE 488 1978
Analog Output	0 to plus 1 V lower three displayed digits
Operating Temperature	plus 10 to plus 40 C 85 percent RH or less no condensation
Accuracy Temperature	plus 25 plus or minus 10 C

PARAMETER	VALUE
Storage Temperature	minus 10 to plus 50 C 90 percent RH or less
Power	100 to 240 VAC 50/60 Hz 60 VA or less
Dimensions	approx 300 W x 132 H x 450 D mm
Mass	10.5 kg or less
Linewidth	Accuracy Below 600 nm: plus or minus 5 ppm

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 10 to plus 50 C 90 percent RH or less
Operating temperature	plus 10 to plus 40 C 85 percent RH or less no condensation
Operating Temperature	plus 10 to plus 40 C 85 percent RH or less no condensation
Accuracy Temperature	plus 25 plus or minus 10 C
Power	100 to 240 VAC 50/60 Hz 60 VA or less
Dimensions	approx 300 W x 132 H x 450 D mm
Mass	10.5 kg or less Notes From Advantest Q8326 Optical Wavelength Meter datasheet Q8326-4Ea. Accuracy footnote applies to single-mode lasers of 10 GHz or less spectral width.

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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Sensitivity 600 to 1650 nm	minus 25 dBm
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Operating Temperature	plus 10 to plus 40 C 85 percent RH or less no condensation
Accuracy Temperature	plus 25 plus or minus 10 C

PARAMETER	VALUE
Storage Temperature	minus 10 to plus 50 C 90 percent RH or less
Power	100 to 240 VAC 50/60 Hz 60 VA or less
Dimensions	approx 300 W x 132 H x 450 D mm
Mass	10.5 kg or less

Notes
From Advantest Q8326 Optical Wavelength Meter datasheet Q8326-4Ea. Accuracy footnote applies to single-mode lasers of 10 GHz or less spectral width.

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
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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.