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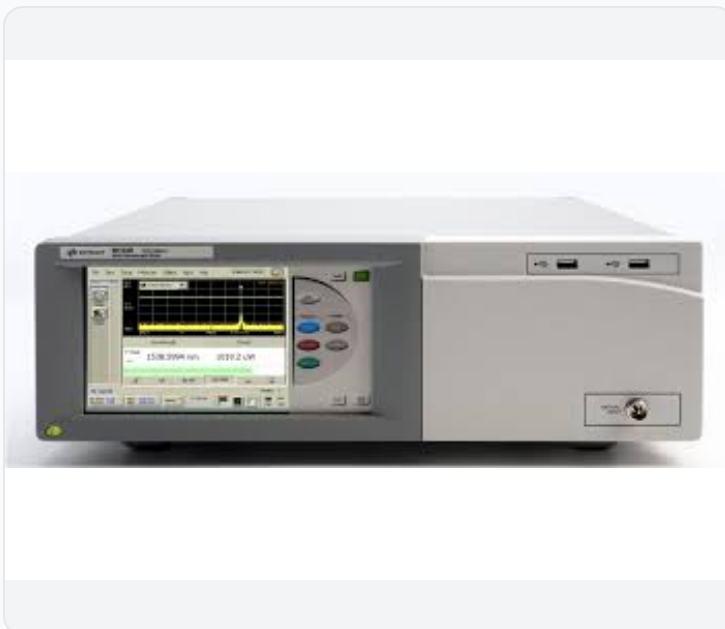
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 86122B Multi-Wavelength Meter Range: 1270-1650 nm

Agilent Keysight 86122B Multi Wavelength Meter The Agilent/Keysight 86122B isaMichelson-interferometer multi-wavelength meter for 1270 to 1650 nm. OEM 86122B Getting Started Guide lists +10 dBm maximum displayed power, +18 dBm maximum safe input, assumed linewidth less than 2.5 GHz, 14.5 kg, 138 mm x 425 mm x 520 mm, and 240 W maximum power. DWDM channel wavelength and power; Fabry-Perot multi-line characterization; manufacturing wavelength adjustment with fast update. Peak, list-by-wavelength, list-by-power, and average-wavelength modes The Agilent/Keysight 86122B isaMichelson-interferometer multi-wavelength meter for 1270 to 1650 nm. OEM 86122B Getting Started Guide lists +10 dBm maximum displayed power, +18 dBm maximum safe input, assumed linewidth less than 2.5 GHz, 14.5 kg, 138 mm x 425 mm x 520 mm, and 240 W maximum power. DWDM channel wavelength and power; Fabry-Perot multi-line characterization; manufacturing wavelength adjustment with fast update. Peak, list-by-wavelength, list-by-power, and average-wavelength modes Power-offset entry for external attenuation above +10 dBm



MODEL

**Agilent / Keysight
86122B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

86122B

LISTING

<https://aumictechlabs.com/products/86122b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 86122B Multi-Wavelength Meter delivers precise wavelength measurement across the 1270–1650 nm band for optical component and subsystem verification. This re-engineered successor to the 86122A maintains backward compatibility while supporting modern computing environments and 24/7 testing operations with minimal downtime. The instrument resolves up to 1000 laser lines and characterizes tunable transmitter lasers and optical subsystems critical to high-speed telecommunications and photonics development.

Technical Specifications
Wavelength Range: 1270–1650 nm (182–236 THz) Wavelength Absolute Accuracy: ± 0.2 ppm (± 0.3 pm at 1310 nm and 1550 nm) for laser lines separated by ≥ 10 GHz Maximum Laser Lines: 1000 Minimum Resolvable Line Separation: 5 GHz Maximum Linewidth (Narrowband Mode): 2.5 GHz Wavelength Scan Speed: <0.5 seconds Measurement Cycle Time: 0.5 seconds Maximum Laser Input Power: +10 dBm (+18 dBm safe input level) Power Consumption: Maximum 240 W Power Supply: 100–240 V AC, 50–60 Hz, auto-ranging with <10% mains tolerance

Key Features
Integrated HeNe laser wavelength standard for absolute accuracy Advanced measurement modules: Drift, OSNR, Data Logging, and Fabry-Perot laser characterization Graphical display for rapid qualitative signal analysis Two front-panel USB ports for peripherals and data export Single-phase AC operation with auto voltage selection and monitoring

Typical Applications
Tunable laser transmitter development and manufacturing Optical subsystem verification and qualification High-speed telecommunications component testing Photonics research and validation

Compatibility & Integration
Backward compatible with the 86122A platform. Operates from standard single-phase AC mains with auto-sensing voltage range. USB connectivity supports external keyboards, mice, and flash storage for flexible laboratory integration.

86122B Characteristics / Specifications

PARAMETER	VALUE
Model	86122B
Instrument Type	Multi-wavelength meter
Series Family	Agilent 86122
Wavelength Range	1270 nm to 1650 nm
Assumed Linewidth	less than 2.5 GHz including modulation sidebands
Maximum Displayed Level	+10 dBm total of all lines
Maximum Safe Input Level	+18 dBm total of all lines
Optical Input Fiber	single-mode
Operating Temperature	+15 C to +35 C
Storage Temperature	minus 40 C to +70 C
Operating Humidity	less than 75 percent RH at +35 C, 5 day soak, type tested
Storage Humidity	95 percent RH at +40 C for 5 day cycle, non-condensing, type tested
Operating Altitude	up to 2000 m
Shock Type Tested	120 g half sine, 2 ms pulse
Vibration Random Type Tested	2 g rms, 5 to 500 Hz, 10 minutes per axis
Vibration Sine Type Tested	0.5 g peak, 5 to 500 Hz, 1 octave per minute
Line Voltage	100 to 240 V
Line Frequency	50 to 60 Hz
Maximum Power Consumption	240 W
Weight	14.5 kg
Height	138 mm
Width	425 mm
Depth	520 mm
Form Factor	benchtop multi-wavelength meter
Linewidth	less than 2.5 GHz including modulation sidebands

PARAMETER	VALUE
Humidity	less than 75 percent RH at +35 C, 5 day soak, type tested

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to +70 C
Operating temperature	+15 C to +35 C
Operating Temperature	+15 C to +35 C
Humidity	less than 75 percent RH at +35 C, 5 day soak, type tested
Operating Humidity	less than 75 percent RH at +35 C, 5 day soak, type tested
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Operating Altitude	up to 2000 m
Shock Type Tested	120 g half sine, 2 ms pulse
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Vibration Sine Type Tested	0.5 g peak, 5 to 500 Hz, 1 octave per minute
Line Voltage	100 to 240 V
Line Frequency	50 to 60 Hz
Maximum Power Consumption	240 W
Weight	14.5 kg
Height	138 mm
Width	425 mm
Depth	520 mm
Form Factor	benchtop multi-wavelength meter Notes Numeric rows from Keysight 86122B Multi-Wavelength Meter Getting Started Guide environmental and input-power tables. Absolute wavelength accuracy (86122A family data sheet listed ± 0.2 ppm) is not copied here because that sheet is titled 86122A; use the 86122B technical specifications sheet for the warranted ppm figure.

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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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
<https://aumictechlabs.com>

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.