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Data Sheet

August 2, 2026

ANRITSU

Anritsu MS9001B Spectrum Analyzer 600nm – 1750nm Calibrated

Anritsu MS9001B Spectrum Analyzer 600nm – 1750nm Calibrated The Anritsu MS9001B is a calibrated optical spectrum analyzer designed for wavelength and level measurements from 600 nm to 1750 nm, with analysis functions for lasers, fiber links, and optical filters. LD and LED spectrum characterization in the near-infrared; fiber loss and component transmission measurements; filter and WDM device evaluation; laboratory and production optical test with GPIB automation. The Anritsu MS9001B is a calibrated optical spectrum analyzer designed for wavelength and level measurements from 600 nm to 1750 nm, with analysis functions for lasers, fiber links, and optical filters. LD and LED spectrum characterization in the near-infrared; fiber loss and component transmission measurements; filter and WDM device evaluation; laboratory and production optical test with GPIB automation.



MODEL

Anritsu MS9001B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MS9001B

LISTING

<https://aumictechlabs.com/products/ms9001b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MS9001B is an optical spectrum analyzer engineered for precise spectral characterization across the 600 nm to 1750 nm wavelength range. It delivers calibrated measurements of light sources and optical components, making it essential for optical

communications development, component validation, and loss characterization in fiber optic systems.

Technical Specifications

Wavelength Range: 600 nm to 1750 nm

Input Power Range: -70 dBm to +10 dBm (0.7–1.6 μm); -65 dBm to +10 dBm (0.6–0.7 μm and 1.6–1.75 μm); -70 dBm to +20 dBm (MS9001B1 variant)

Power Accuracy: ± 2 dB absolute optical level (measured at 0.85 μm , 1.31 μm , 1.55 μm)

Wavelength Accuracy: ± 0.1 nm

Linearity: ± 0.5 dB/20 dB; ± 1 dB/60 dB

Resolution

Bandwidth: 0.01 nm to 5 nm

Dynamic Range: 45–50 dB

Sweep Time: 3.5 seconds (5500 nm sweep width); 0.3 seconds high-speed (0–2 ns sweep width)

Operating Temperature: 10°C to 40°C

Interfaces: GPIB standard; RS-232 and USB available (MS9001B1)

Key Features

Optimized for 1.55 μm optical communication wavelengths and broadband analysis from visible to mid-infrared

Selectable resolution bandwidth (0.01–5 nm) for source linewidth and filter characterization

Rapid sweep acquisition supports both standard and high-speed measurement modes

± 2 dB absolute power accuracy across critical telecom wavelengths

Built-in analysis functions: LD spectrum, LED spectrum, fiber loss, filter transmission

GPIB remote control for automated test sequences

Typical Applications

Laser diode and LED spectral characterization

Optical component loss measurement (filters, couplers, fiber segments)

White-light source analysis (compatible with broadband sources)

Optical communication system validation and troubleshooting

Compatibility & Integration

The MS9001B connects via standard GPIB interface. The MS9001B1 variant adds RS-232 and USB connectivity. Physical dimensions approximately 426 mm (W) $\times$ 177 mm (H) $\times$ 487 mm (D); weight approximately 15–30 kg depending on configuration.

Features & description

From manufacturer datasheet

Features

- Optical spectrum analyzer covering 0.6–1.75 μm (600–1750 nm)
- Level measurement range class –70 to +10 dBm over 0.7–1.6 μm (wider at band edges per OEM)
- Measuring level accuracy ≤ 2 dB at 0.85, 1.31, and 1.55 μm reference wavelengths
- Linearity ≤ 0.5 dB per 20 dB span; ≤ 1 dB per 60 dB span
- Polarization dependence approximately ± 0.5 dB at 1.31 and 1.55 μm
- Level scale 0.2–10 dB/div and LINEAR display modes
- Analysis functions: LD/LED spectrum, fiber loss, filter transmission
- GPIB remote control interface
- Calibrated instrument for traceable optical level readout

Polarization Dependence: approximately ± 0.5 dB at 1.31 μm and 1.55 μm

Level Scale: 0.2–10 dB/div; LINEAR Analysis Functions: LD/LED spectrum, fiber loss, filter transmission
Remote Interface: GPIB Related Family: MS9001 series (distinct from MS9001B1 suffix variants unless explicitly ordered)
Standard Operating Conditions Allow warm-up and perform wavelength/level calibration per Anritsu procedure before absolute measurements. Select appropriate resolution and averaging for the source linewidth and dynamic range required. Use calibrated sensors and reference conditions at 0.85, 1.31, or 1.55 μm when verifying level accuracy. Operational Notes Prefer Anritsu MS9001B OEM specification sheet over third-party listings that claim wider ranges such as –90 to +20 dBm. Confirm faceplate model MS9001B versus MS9001B1 family designation when ordering calibration or spare parts. Alias MS9001B (hyphenless) appears in inventory systems.

MS9001B Characteristics / Specifications

PARAMETER	VALUE
Anritsu MS9001B Spectrum Analyzer 600nm	1750nm Calibrated Overview The Anritsu MS9001B is a calibrated optical spectrum analyzer designed for wavelength and level measurements from 600 nm to 1750 nm, with analysis functions for lasers, fiber links, and optical filters.
Model	MS9001B
Manufacturer	Anritsu
Instrument Type	Optical Spectrum Analyzer
Alias	MS9001B
Wavelength Range	0.6–1.75 μm (600–1750 nm)
Level Range	–70 to +10 dBm (0.7–1.6 μm class; wider at spectral edges per OEM)
Level Accuracy	≤2 dB at 0.85 μm, 1.31 μm, and 1.55 μm
Linearity	≤0.5 dB / 20 dB; ≤1 dB / 60 dB
Polarization Dependence	approximately ±0.5 dB at 1.31 μm and 1.55 μm
Level Scale	0.2–10 dB/div; LINEAR
Analysis Functions	LD/LED spectrum, fiber loss, filter transmission
Remote Interface	GPIB
Related Family	MS9001 series (distinct from MS9001B1 suffix variants unless explicitly ordered) Standard Operating Conditions Allow warm-up and perform wavelength/level calibration per Anritsu procedure before absolute measurements. Select appropriate resolution and averaging for the source linewidth and dynamic range required. Use calibrated sensors and reference conditions at 0.85, 1.31, or 1.55 μm when verifying level accuracy.
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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

Specifications

PARAMETER	VALUE
Model	MS9001B
Manufacturer	Anritsu
Instrument Type	Optical Spectrum Analyzer
Alias	MS9001B
Wavelength Range	0.6–1.75 μm (600–1750 nm)
Level Range	–70 to +10 dBm (0.7–1.6 μm class; wider at spectral edges per OEM)
Level Accuracy	±2 dB at 0.85 μm, 1.31 μm, and 1.55 μm
Linearity	±0.5 dB / 20 dB; ±1 dB / 60 dB
Polarization Dependence	approximately ±0.5 dB at 1.31 μm and 1.55 μm
Level Scale	0.2–10 dB/div; LINEAR
Analysis Functions	LD/LED spectrum, fiber loss, filter transmission
Remote Interface	GPIO
Related Family	MS9001 series (distinct from MS9001B1 suffix variants unless explicitly ordered)

Standard Operating Conditions

Allow warm-up and perform wavelength/level calibration per Anritsu procedure before absolute measurements. Select appropriate resolution and averaging for the source linewidth and dynamic range required. Use calibrated sensors and reference conditions at 0.85, 1.31, or 1.55 μm when verifying level accuracy.

Operational Notes

Prefer Anritsu MS9001B OEM specification sheet over third-party listings that claim wider ranges such as –90 to +20 dBm. Confirm faceplate model MS9001B versus MS9001B1 family designation when ordering calibration or spare parts. Alias MS9001B (hyphenless) appears in inventory systems.

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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<https://aumictechlabs.com>

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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.