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Data Sheet

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ANRITSU

Anritsu MW9076B Optical Time Domain Reflectometer

Anritsu MW9076B Optical Time Domain Reflectometer The Anritsu MW9076B is the high-performance two-wavelength single-mode mini-OTDR in the MW9076 series for long-distance SM fiber installation and maintenance. It provides typical dynamic range of 45 dB at 1.31 μm and 43 dB at 1.55 μm with Fresnel/backscatter dead zones of 1.6 / 8 m – the highest two-wavelength dynamic range in the MW9076 family. Built-in light source and optical power meter functions are supported. Like other MW9076 optical units, it requires a MU250000A 8.4-inch TFT-LCD display unit. Anritsu lists the MT9085 series as the replacement platform. The Anritsu MW9076B is the high-performance two-wavelength single-mode mini-OTDR in the MW9076 series for long-distance SM fiber installation and maintenance. It provides typical dynamic range of 45 dB at 1.31 μm and 43 dB at 1.55 μm with Fresnel/backscatter dead zones of 1.6 / 8 m – the highest two-wavelength dynamic range in the MW9076 family. Built-in light source and optical power meter functions are supported. Like other MW9076 optical units, it requires a MU250000A 8.4-inch TFT-LCD display unit. Anritsu lists the MT9085 series as the replacement platform. Long-distance SM fiber installation and maintenance; dual-window 1310/1550 nm OTDR testing; optical loss measurement with built-in source/power meter; high-speed full-auto field OTDR with color display.



MODEL Anritsu MW9076B	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU MW9076B	LISTING https://aumictechlabs.com/products/mw9076b-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MW9076B is a compact optical time domain reflectometer engineered for field fiber diagnostics and verification. It delivers rapid trace acquisition with integrated display and automated measurement modes, enabling technicians to execute comprehensive fiber characterization from a single keypress. The instrument combines OTDR, chromatic dispersion analysis, Fresnel reflection measurement, and light source functions in a single platform, with real-time sweep capability of 0.15 seconds and waveform/connection loss display within 10 seconds.

Technical Specifications
Applicable Fiber: Single-mode (SM) optical fiber (ITU-T G.652), PC polishing
Optical Connectors: FC, SC, ST, DIN, HMS-10/A (shared with OTDR)
Operating Wavelengths: 1310/1550 nm ± 25 nm
OTDR Dynamic Range: 45/43 dB (typical)
Dead Zone: 1.6 m (Fresnel), 8 m (back-scattered)
Spatial Resolution: 5 cm
Sampling Points: 50,000
Internal Memory: Approximately 18 MB
Light Source Output Power: -3 ± 1.5 dBm (CW, 25°C, SM fiber 2 m)
Light Source Wavelengths: 1310/1550 nm
Light Source Modulation: CW, 270 Hz, 1 kHz, 2 kHz

Key Features
Chromatic Dispersion Measurement: Single-end measurement with ± 0.05 ps/(nm·km) reproducibility; 30 dB dynamic range; cubic or quintic Sellmeier fitting
Fresnel Reflection Measurement: Four-wavelength support (1310/1450/1550/1625 nm)
Group Delay Characteristics: Supported
Full Automatic Mode: Single-keypress measurement execution with automatic distance range, pulse width, attenuator, and marker configuration; automatic wavelength switching when set to ALL
Repeated Measurement Function: Automates measurement cycles, wavelength/channel switching, and data storage across multiple fibers and cores
Waveform Comparison: Direct comparison of measured and archived data
Multi-wavelength Display: Simultaneous group measurement and display
Data Format: Bellcore GR-196 SOR (GR-196-CORE, SR-4731) or Anritsu format
VGA Output: External CRT monitor connection supported

Optional Functions
Optical Power Meter: -70 to $+3$ dBm (Option -02) or -50 to $+23$ dBm (Option -03)
Visible LD: 635 nm laser for break and loss-point detection
Optical Channel Selector Control: External multi-core selector support (up to 32 cores)

Compatibility & Integration
The MW9076B integrates with external optical channel selectors for automated multi-core fiber measurement. Data export via industry-standard Bellcore GR-196 SOR format ensures interoperability with third-party analysis platforms.

Features & description

From manufacturer datasheet

Features

- Two-wavelength SM OTDR: 1310 / 1550 nm
- Highest two-wavelength dynamic range in series: 45/43 dB typical
- Short dead zone: 1.6 m Fresnel / 8 m backscatter
- Built-in light source function
- Built-in optical power meter (including high-power OPM option class)
- Visible light source
- Full-auto measurement in about 10 s; real-time sweep about 0.15 s
- Up to 50,000 sampling points; 5 cm resolution class
- Requires MU250000A color display unit
- Lithium-ion battery with remaining-charge indication

MW9076B Characteristics / Specifications

PARAMETER	VALUE
Model	MW9076B
Manufacturer	Anritsu
Instrument Type	Mini OTDR optical unit – SM two-wavelength high performance
Fiber	10/125 um single-mode (ITU-T G.652)
Wavelengths	1.31 / 1.55 um +/-25 nm
Dynamic Range	45 dB typical (1.31 um); 43 dB typical (1.55 um)
Dead Zone Fresnel / Backscatter	1.6 / 8 m
Display Unit Required	MU250000A (8.4 in TFT-LCD)
Light Source (shared OTDR port)	FP-LD; 1310/1550 +/-25 nm; output about -3 +/-1.5 dBm CW into SM; modulation 270 Hz / 1 kHz / 2 kHz
Waveform Storage	Bellcore SOR (GR-196 / SR-4731) or Anritsu format
Laser Safety	21CFR Class 1, IEC 60825-1 Class 1
Power (series)	less than or equal to 35 W max while charging; about 4 W standard state with display
Battery Continuous Operation (series typical)	about 6 hours Related Models
MW9076B	1310/1550 nm, 40.5/38.5 dB typical (cost-performance)
MW9076C	1310/1550/1625 nm, 41.5/39.5/37 dB
MW9076D	four wavelengths with chromatic dispersion
MT9085C / MT9085B	modern ACCESS Master replacements Standard Operating Conditions Mate only with MU250000A. Clean SM connectors. Use correct IOR. Dynamic range conditions typically 20 us pulse, long average at 25 C (SNR=1). Operational Notes
Two-wavelength SM OTDR	1310 / 1550 nm
Highest two-wavelength dynamic range in series	45/43 dB typical
Short dead zone	1.6 m Fresnel / 8 m backscatter

MW9076B Specifications

PARAMETER	VALUE
Anritsu MW9076B Optical Time Domain Reflectometer	Overview
Key Features	- Two-wavelength SM OTDR: 1310 / 1550 nm
Technical Specifications	Model: MW9076B
Related Models	MW9076B1: 1310/1550 nm, 40.5/38.5 dB typical (cost-performance)

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.

performance two-wavelength single-mode mini-OTDR in the MW9076 series for long-distance SM fiber installation and maintenance. It provides typical dynamic range of 45 dB at 1.31 um and 43 dB at 1.55 um with Fresnel/backscatter dead zones of 1.6 / 8 m – the highest two-wavelength dynamic range in the MW9076 family. Built-in light source and optical power meter functions are supported. Like other MW9076 optical units, it requires a MU250000A 8.4-inch TFT-LCD display unit. Anritsu lists the MT9085 series as the replacement platform.

Applications

Long-distance SM fiber installation and maintenance; dual-window 1310/1550 nm OTDR testing; optical loss measurement with built-in source/power meter; high-speed full-auto field OTDR with color display.

Key Features

- Two-wavelength SM OTDR: 1310 / 1550 nm
- Highest two-wavelength dynamic range in series: 45/43 dB typical
- Short dead zone: 1.6 m Fresnel / 8 m backscatter
- Built-in light source function
- Built-in optical power meter (including high-power OPM option class)
- Visible light source
- Full-auto measurement in about 10 s; real-time sweep about 0.15 s
- Up to 50,000 sampling points; 5 cm resolution class
- Requires MU250000A color display unit
- Lithium-ion battery with remaining-charge indication

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	MW9076B
Manufacturer	Anritsu
Instrument Type	Mini OTDR optical unit – SM two-wavelength high performance
Fiber	10/125 um single-mode (ITU-T G.652)
Wavelengths	1.31 / 1.55 um +/-25 nm
Dynamic Range	45 dB typical (1.31 um); 43 dB typical (1.55 um)
Dead Zone Fresnel / Backscatter	1.6 / 8 m
Display Unit Required	MU250000A (8.4 in TFT-LCD)
Light Source (shared OTDR port)	FP-LD; 1310/1550 +/-25 nm; output about -3 +/-1.5 dBm CW into SM; modulation 270 Hz / 1 kHz / 2 kHz
Waveform Storage	Bellcore SOR (GR-196 / SR-4731) or Anritsu format
Laser Safety	21CFR Class 1, IEC 60825-1 Class 1
Power (series)	less than or equal to 35 W max while charging; about 4 W standard state with display
Battery Continuous Operation (series typical)	about 6 hours

Specifications

PARAMETER	VALUE
MW9076B1	1310/1550 nm, 40.5/38.5 dB typical (cost-performance)
MW9076C	1310/1550/1625 nm, 41.5/39.5/37 dB
MW9076D1	four wavelengths with chromatic dispersion
MT9085C / MT9085B	modern ACCESS Master replacements

Standard Operating Conditions
Mate only with MU250000A. Clean SM connectors. Use correct IOR. Dynamic range conditions typically 20 us pulse, long average at 25 C (SNR=1).

Operational Notes
MW9076B is the optical unit; confirm display unit and battery are included. Do not confuse with MW9076B1 lower dynamic-range sibling or three-wavelength MW9076C.

Laser Safety

Laser Safety: 21CFR Class 1, IEC 60825-1 Class 1 Power (series): less than or equal to 35 W max while charging; about 4 W standard state with display Battery Continuous Operation (series typical): about 6 hours Related Models MW9076B1: 1310/1550 nm, 40.5/38.5 dB typical (cost-performance) MW9076C: 1310/1550/1625 nm, 41.5/39.5/37 dB MW9076D1: four wavelengths with chromatic dispersion MT9085C / MT9085B: moder

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.