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Data Sheet

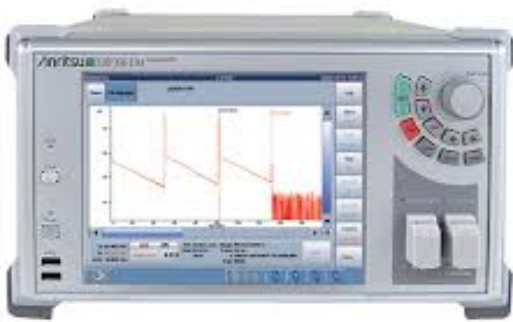
August 14, 2026

ANRITSU

Anritsu MW90010B Coherent OTDR " Coherent OTDR

The Anritsu MW90010B is a coherent optical time domain reflectometer for ultra-long-haul and submarine fiber characterization. OEM coherent OTDR documentation emphasizes coherent detection for high dynamic range fault location over very long fiber spans. Submarine and ultra-long-haul fiber fault location, span loss characterization, and coherent OTDR surveys.

Instrument Type: Coherent optical time domain reflectometer
Detection Method: Coherent detection OTDR
Distance Range Class: Hundreds to thousands of kilometers class capability
Event Analysis: Fault event detection class
Loss Analysis: Span loss characterization class
Series Family: Anritsu MW90010B Coherent OTDR



MODEL

**Anritsu
MW90010B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MW90010B

LISTING

<https://aumictechlabs.com/products/mw90010b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MW90010B is a coherent optical time domain reflectometer engineered for precision characterization and fault location in ultra-long submarine fiber optic cables. Using optical heterodyne detection, it delivers high sensitivity and 10 meter resolution across measurement ranges up to 20,000 km - ideal for intercontinental communication lines and networks employing optical amplifier repeaters. The instrument captures detailed waveform data including fault

location, cable loss, bending loss, and fiber length. Technical Specifications Measurement Range: Up to 12,000 km standard; up to 20,000 km with MW90010B-003 option Measurement Resolution: 10 meters Wavelength Tunability: 1527.60 nm to 1567.13 nm (C-band), selectable in 50 GHz steps Wavelength Accuracy: ± 0.05 nm (20°C to 30°C) Dynamic Range: ≥ 18 dB (typical) Dead Zone: 0.5 km Pulse Width: 3, 10, 30, 60, 100 μ s options Optical Output Power: 0 to +13 dBm (0.5 dB steps) Repeater Support: Optical amplifier repeaters ≥ 80 km separation Fiber Type: ITU-T G.653 (DSF) Key Features Built-in tunable light source across full C-band enables DWDM submarine cable measurement without external equipment 8.4-inch XGA touchscreen (1024 $\times$ 768) with rotary knob and keypad interface Real-time measurement, zoom/shift, and 2-point loss analysis functions Remote operation via wired Ethernet and Windows Desktop integration NETWORKS emulation software (v4.1+) compatibility for post-measurement waveform analysis on Windows PC PDF report generation for measurement documentation Portable design: <10 kg weight, compact form factor for landing stations and cable vessels Typical Applications Submarine cable characterization and fault diagnosis DWDM cable validation and wavelength-specific measurements Long-haul repeater-amplified fiber networks On-site testing at cable terminals and maintenance facilities Compatibility & Integration Operates on ITU-T G.653 dispersion-shifted fiber Integrates with Windows-based NETWORKS software for advanced data analysis Ethernet connectivity for remote monitoring and control

Features & description

From manufacturer datasheet

Polarization Handling Class: Coherent polarization management class

Warmup Time Class: 15 minutes typical class Relative Humidity Class: Up to 80 percent noncondensing class Notes From Anritsu MW90010B Coherent OTDR OEM product documentation. Confirm exact wavelengths, dynamic range, and maximum distance on the unit datasheet revision.

MW90010B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Coherent optical time domain reflectometer
Detection Method	Coherent detection OTDR
Wavelengths Class	Telecom coherent OTDR wavelength set class
Fiber Type	Single mode ultra long haul fiber class
Dynamic Range Class	Very high dynamic range coherent OTDR class
Pulse Width Class	Multiple selectable pulse widths
Distance Range Class	Hundreds to thousands of kilometers class capability
Event Analysis	Fault event detection class
Loss Analysis	Span loss characterization class
Display	OTDR trace display class
Form Factor	Benchtop coherent OTDR
Remote Interface Class	GPIB LAN class
Series Family	Anritsu MW90010B Coherent OTDR
Applications Class	Submarine and ultra long haul fiber test
Connector Class	FC SC interchangeable adapters class
Data Storage	Trace save recall class
Operating Temperature Class	Standard lab
Averaging	Coherent averaging modes class
IOR Setting	User settable index of refraction
Loss Measurement	2 point and LSA loss class
Polarization Handling Class	Coherent polarization management class
Warmup Time Class	15 minutes typical class
Relative Humidity Class	Up to 80 percent noncondensing class
Operating temperature	Class: Standard lab
Humidity	Class: Up to 80 percent noncondensing class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab
Operating Temperature	Class: Standard lab
Humidity	Class: Up to 80 percent noncondensing class
Operating Temperature Class	Standard lab
Averaging	Coherent averaging modes class
IOR Setting	User settable index of refraction
Loss Measurement	2 point and LSA loss class
Polarization Handling Class	Coherent polarization management class
Warmup Time Class	15 minutes typical class
Relative Humidity Class	Up to 80 percent noncondensing class Notes From Anritsu MW90010B Coherent OTDR OEM product documentation. Confirm exact wavelengths, dynamic range, and maximum distance on the unit datasheet revision.

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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Instrument Type	Coherent optical time domain reflectometer
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Notes	
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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

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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.