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Data Sheet
August 2, 2026

ANRITSU

Anritsu ML9001A Optical Power Meter

The ML9001A providesasingle-channel optical power meter mainframe designed asaGPIB-capable indicator for interchangeable Anritsu MA94xx, MA96xx, and MA97xx sensor heads covering Si, Ge, and InGaAs detectors across visible and telecom wavelengths. Absolute and relative optical power measurement in R&D and production; wavelength-corrected dBm readouts with interchangeable sensors; automated test via GPIB; CW and modulated-signal power checks on fiber optic components and systems. Modulation Frequencies: CW plus 12 selectable modulation frequencies Compatible Sensors: MA94xx, MA96xx, MA97xx (Si, Ge, InGaAs; various wavelength ranges) Install appropriate sensor for wavelength and power level under test. Enter wavelength correction before absolute dBm readings. Zero or reference per manual when performing relative measurements. Quoted level range, accuracy, and connector type depend entirely on the installed sensor module–confirm sensor model before quoting specifications. Alias ML9001A.

MODEL Anritsu ML9001A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU ML9001A	LISTING https://aumictechlabs.com/products/ml9001a-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu ML9001A is a single-channel optical power meter engineered for precise measurement across telecom bands and fiber applications. It delivers -100 dBm to +20 dBm measurement capability with ±5% accuracy at -23 dBm and ±0.15 dB linearity. The instrument

spans 0.38 to 1.8 µm wavelength range and supports both continuous and modulated light measurement at 12 selectable frequencies including 270 Hz.A 4-digit display presents data in W, W(rel), dBm, or dB(rel) units with manual or automatic ranging. Internal reflection suppression in optical sensors and interchangeable connector adapters minimize measurement error and enable flexible deployment. GPIB automation delivers 30 ms/point response speed - exceeding 50% faster than conventional automatic measurement - while a 1 V/full-scale recorder output provides linear power-proportional signals.Automatic sensor calibration ensures accuracy across the specified wavelength range, making the ML9001A suitable for optical fiber loss characterization and optical device performance evaluation.Technical Specifications Measurement range: -100 dBm to +20 dBm Accuracy: ±5% at -23 dBm Linearity: ±0.15 dB (referenced to -23 dBm) Wavelength range: 0.38 to 1.8 µm Display: 4-digit with selectable units (W, W(rel), dBm, dB(rel)) Modulation frequencies: 12 frequencies including 270 Hz Response speed: 30 ms/point via GPIB Measurement modes: Continuous and modulated light Recorder output: 1 V/full-scale, linear to power level in watts Range select: Manual and automaticKey Features Suppressed internal reflection in power sensors reduces measurement error Automatic sensor calibration within specified wavelength range GPIB interface for enhanced automation and 50%+ reduction in measurement time versus conventional methods Interchangeable optical connectors via adapter system Adjustable calibration coefficientTypical Applications Optical fiber loss measurement Optical device performance evaluation Repeater maintenance and long-distance fiber loss characterization Multi-core fiber cable loss assessmentCompatibility & Integration Compatible with Anritsu optical power sensors including MA9612A (ultra-high sensitivity, 1.3 µm band, -100 to +3 dBm) and MA9611A Pairs with Anritsu Stabilized Light Sources (MG9001A, MG9002A) for configurable optical loss test sets

Features & description

From manufacturer datasheet

Features

• Single-channel optical power meter indicator • Interchangeable MA94xx / MA96xx / MA97xx sensors (Si / Ge / InGaAs) • Level range −100 to +20 dBm class (sensor dependent) • CW and 12 modulation frequency settings • Wavelength correction in 1 nm steps • GPIB remote control; up to 1000 data points via GPIB • 4-digit display: W, dBm, REL

ML9001A Characteristics / Specifications

PARAMETER	VALUE
Model	ML9001A
Manufacturer	Anritsu
Instrument Type	Optical Power Meter (single-channel mainframe)
Level Range	−100 to +20 dBm class (sensor dependent)
Accuracy	±5% at −23 dBm (reference conditions)
Linearity	±0.15 dB
Modulation Frequencies	CW plus 12 selectable modulation frequencies
Wavelength Correction	1 nm steps
Remote Interface	GPIB
GPIB Data Capacity	up to 1000 points
Display	4-digit; W, dBm, REL
Compatible Sensors	MA94xx, MA96xx, MA97xx (Si, Ge, InGaAs; various wavelength ranges) Standard Operating Conditions Install appropriate sensor for wavelength and power level under test. Enter wavelength correction before absolute dBm readings. Zero or reference per manual when performing relative measurements.
4-digit display	W, dBm, REL

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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Operational Notes
Quoted level range, accuracy, and connector type depend entirely on the installed sensor module—confirm sensor model before quoting specifications. Alias ML9001A.

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

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