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Data Sheet

August 14, 2026

ANRITSU

Anritsu ML9002A Optical Power Meter

Anritsu ML9002A Optical Handy Power Meter The Anritsu ML9002A is a compact handheld optical power meter supporting seven interchangeable optical sensors with three-wavelength calibration for direct absolute power readout. OEM Anritsu ML9002A literature cites wide level ranges such as minus 70 to plus 3 dBm with MA9621A in the 1.3 μ m band and minus 70 to plus 10 dBm with MA9423A in the 0.85 μ m band. Optical communications maintenance, optical disk and printer power checks, and field absolute optical power measurements with calibrated sensors. The Anritsu ML9002A is a compact handheld optical power meter supporting seven interchangeable optical sensors with three-wavelength calibration for direct absolute power readout. OEM Anritsu ML9002A literature cites wide level ranges such as minus 70 to plus 3 dBm with MA9621A in the 1.3 μ m band and minus 70 to plus 10 dBm with MA9423A in the 0.85 μ m band. Optical communications maintenance, optical disk and printer power checks, and field absolute optical power measurements with calibrated sensors.



MODEL

Anritsu ML9002A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ML9002A

LISTING

<https://aumictechlabs.com/products/ml9002a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu ML9002A is a compact, handy optical power meter designed for precise optical power measurements across a variety of applications, including optical disk testing, optical printers, and optical communications systems. It has a broad measurement level range,

accommodating various optical sensors for different wavelengths, power levels, and input types. This meter is suitable for on-site maintenance and characterization of optical components and systems.

Technical Specifications

Measurement Capabilities:

- * Accurate measurement of optical power.
- * Wide measurement level range, comparable to more expensive instruments.
- * Direct absolute power readings for three calibrated wavelengths (specific wavelengths vary by sensor type, e.g., 0.633/0.78/0.85 μm or 0.66/0.78/0.85 μm for short wavelengths, and 0.85/1.3/1.55 μm for long wavelengths).
- * Absolute optical power can be read directly by switching to the measured wavelength.
- * Anti-reflection optical sensor for accurate measurement of narrow beams, even with adapter changes.

Dynamic Range and Sensitivity:

- * Optical power of -70 to +3 dBm in the 1.3 μm band (with MA9621A Optical Power Sensor).
- * Optical power of -70 to +10 dBm in the 0.85 μm band (with MA9423A Optical Power Sensor).

Optical Sensors:

- * Supports seven interchangeable optical sensors, allowing for flexibility in wavelength, measurement level, and optical input type.
- * Sensors can be directly incorporated into the main frame or connected via a connecting cord.
- * Specific sensor models include MA9421A, MA9422A (thin sensor), MA9423A, MA9621A, MA9721A, MA9722A (fiber identification sensor), and MA9723A.
- * The MA9722A Optical Power Sensor works with measuring optical power in optical fiber cables (mm, UV-coated fiber).

Display and Indicators:

- * Unit display: W, W(REL), dBm, and dB(REL), selectable.
- * 4-digit display.

Functions:

- * Averaging.
- * Range hold.
- * Buzzer with 1 dB sound threshold level setting.
- * Auto power-off function (after 5 minutes of non-use).

Recorder Output:

- * 1 V/full-scale.
- * 0.316 V/-5 dB.

Interfaces and Connectors:

- * Compatible with a variety of optical connectors, including FC, D4, RUNGE, ST, DIN, DIAMOND, and SC, by replacing the connector adapter.

Power:

- * AC adapter (Z0178).
- * Power cord (25 m) (J0017).

Physical:

- * Dimensions and mass are specified in the technical documentation.
- * Compact and handy form factor.

Included Accessories (Standard):

- * AC adapter (Z0178).
- * Power cord, 2.5 m (J0017).
- * Blank panel (B0232).
- * ML9002A instruction manual (W0400CE).
- * Auto-power-off override plug (J0477).

Optional Accessories:

- * Connector Adapter for optical sensor (MA9005A).
- * Sensor Adapter for sensor connecting cord S/T (MA9006A).
- * Fiber Adapter for $\leq 150 \mu\text{m}$ clad dia., 0.8 to 1.0 mm jacket dia. (MP93A).
- * Connector Adapter for MP93A and MP916A (MP94D).
- * Fiber adapter (MA9013A).

Applications

- * Testing and characterization of optical components and systems.
- * Optical disk testing.
- * Optical printer testing.
- * Optical communications systems installation and maintenance.
- * Fiber-optic network testing.

Discontinuation Notice The Anritsu ML9002A has been discontinued, with a date of discontinuance in April 2007. Replacement models include the CMA5 and CMA50.

Why Choose Aumictech for Anritsu ML9002A? At Aumictech, we specialize in supplying high-end optical test and measurement equipment. Whether you need reliable optical power measurement, flexible sensor compatibility, or accurate performance for your fiber-optic network applications, our team ensures the Anritsu ML9002A delivers maximum performance for your application.

ML9002A Characteristics / Specifications

PARAMETER	VALUE
Model	ML9002A
Instrument Type	optical handy power meter
Sensors Supported	7 optical sensors
Short Wavelength Calibration Sets	0.633/0.78/0.85 μm or 0.66/0.78/0.85 μm
Long Wavelength Calibration Set	0.85/1.3/1.55 μm
MA9621A Level Range 1.3 μm Band	minus 70 to plus 3 dBm
MA9423A Level Range 0.85 μm Band	minus 70 to plus 10 dBm
Display Digits	4
Display Units	W W(REL) dBm dB(REL) selectable
Analog Output	1 V full scale 0.316 V at minus 5 dB
Measurement Accuracy Class	plus or minus 5 percent at minus 10 dBm CW mode
Resolution W/W(REL)	0.1 to 1 percent
Resolution dBm/dB(REL)	0.01 dB
Battery Operation	20 hr or more floating on internal Ni-Cd
Auto Power Down	after 5 minutes non-use with internal battery
Operating Temperature	0 to 50 C
Storage Temperature	minus 30 to 50 C
Recharging Temperature	10 to 45 C
Mass Class	less than or equal to 700 g class per catalog
Form Factor	handheld mainframe with optional remote sensor cord
Absolute Reading	direct after wavelength switch selection
Sensor Mounting	in mainframe or remote connecting cord
Range Settings	autorange and manual class
Auto Power Down Timer	5 minutes
Calibration Wavelength Selection	front panel wavelength switch

ML9002A Specifications

PARAMETER	VALUE
Anritsu ML9002A Optical Handy Power Meter	Overview
Key Features	Seven sensor options for wavelength level and connector types
Sensor mountable in mainframe or remote via cord	W W(REL) dBm dB(REL) display units
Technical Specifications	Model: ML9002A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Recharging Temperature	10 to 45 C
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Form Factor	handheld mainframe with optional remote sensor cord
Absolute Reading	direct after wavelength switch selection
Sensor Mounting	in mainframe or remote connecting cord
Range Settings	autorange and manual class
Auto Power Down Timer	5 minutes
Calibration Wavelength Selection	front panel wavelength switch Notes From Anritsu ML9002A Optical Handy Power Meter product literature and 1998 catalog extracts. Measurement range and element type depend on the attached sensor model; confirm sensor label and calibration wavelengths.

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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Calibration Wavelength Selection	front panel wavelength switch

Notes
From Anritsu ML9002A Optical Handy Power Meter product literature and 1998 catalog extracts. Measurement range and element type depend on the attached sensor model; confirm sensor label and calibration wavelengths.

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

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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.