

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 1, 2026

ANRITSU

Anritsu MS9020A OPTICAL LOSS TEST SET

The Anritsu MS9020A is a handheld modular optical loss test set in the MS9020 series that combines plug-in LD or LED light sources with plug-in optical power sensors (and optional return-loss hardware) in one field instrument. The MS9020A/B/C/D family shares the same plug-in architecture later documented in detail for the MS9020D: loss measurement in the 0.66, 0.85, 1.3, and 1.55 μm bands with CW and modulated source modes (270 Hz, 1 kHz, 2 kHz). Absolute power uses wavelength calibration in 5 nm steps. Sensor cord J0436 is documented for MS9020A/B/C/D. The line is discontinued; Anritsu cites CMA5 / CMA50 class replacements for the later MS9020D. Field optical loss measurement on SM, GI, and plastic fibers; absolute optical power metering with installed sensors; modulated-source loss tests when ambient light interferes; return-loss measurement when the RL plug-in is fitted. Measurement Range: about -70 to +20 dBm CW (sensor dependent) Accuracy: about $\pm 5\%$ under reference conditions Install matching source and sensor plug-ins for the fiber type and wavelength. Zero/reference loss measurements per manual before quoting absolute loss. Use modulated mode when ambient light interferes. MS9020A performance is entirely plug-in dependent—inventory installed LD/LED and sensor modules before quoting wavelength and range. Use MS9020D published tables as the verified family reference when



MODEL

Anritsu MS9020A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MS9020A

LISTING

<https://aumictechlabs.com/products/ms9020a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MS9020A OPTICAL LOSS TEST SET is a basic optical loss test set engineered for efficient measurement of optical power and loss across fiber optic network installations and maintenance operations. This instrument delivers the core functionality required for field characterization of optical signal levels and attenuation in deployed fiber systems.

Technical Specifications The MS9020A performs optical power and loss measurements, making it suitable for both new installations and ongoing network maintenance activities.

Key Features Optical power measurement capability for fiber optic networks Optical loss measurement functionality Designed for field deployment in installation and maintenance workflows Basic feature set optimized for straightforward loss and power characterization

Typical Applications Fiber optic network installation verification In-service fiber optic network maintenance Optical power level documentation Loss budget validation in fiber spans Field troubleshooting of optical signal degradation

Compatibility & Integration The MS9020A integrates into standard fiber optic testing workflows for installation and maintenance teams requiring portable, dedicated loss and power measurement capability.

Features & description

From manufacturer datasheet

Features

- Modular plug-in sources and sensors (MS9020 family)
- Optical loss bands: 0.66 / 0.85 / 1.3 / 1.55 μm class
- CW and modulated source modes (270 Hz, 1 kHz, 2 kHz)
- Power meter display in W, W(REL), dBm, dB(REL)
- Sensor wavelength compensation in 5 nm steps
- Field portable; AC adapter / battery operation (family)
- Compatible sensor cord lineage shared with MS9020B/C/D

MS9020A Characteristics / Specifications

PARAMETER	VALUE
Technical Specifications	Mainframe (MS9020 family / MS9020D documented reference)
Model	MS9020A
Manufacturer	Anritsu
Instrument Type	Optical loss test set (modular source + power meter)
Unit Display	W, W(REL), dBm, dB(REL); 4 digits class
Modulation	CW, 270 Hz, 1 kHz, 2 kHz (sensor dependent)
Applicable Fiber (with appropriate units)	GI, SM (ITU-T G.652), plastics Light Source Units (family examples)
Elements	LED, LD, EE-LED, FP-LD
Wavelengths	0.635, 0.66, 0.85, 1.3, 1.31, 1.55 um and dual-wavelength combinations
CW Output Level (examples)	LED about -47 to -10 dBm; LD/FP-LD about -3 dBm Optical Power Sensors (family examples)
Wavelength Range	about 0.38 to 1.8 um depending on Si / InGaAs sensor
Measurement Range	about -70 to +20 dBm CW (sensor dependent)
Accuracy	about +/-5% under reference conditions Standard Operating Conditions Install matching source and sensor plug-ins for the fiber type and wavelength. Zero/reference loss measurements per manual before quoting absolute loss. Use modulated mode when ambient light interferes.
Optical loss bands	0.66 / 0.85 / 1.3 / 1.55 um class
Fiber type	and wavelength. Zero/reference loss measurements per manual before quoting absolute loss. Use modulated mode when ambient light interferes.

MS9020A Specifications

PARAMETER	VALUE
Anritsu MS9020A Optical Loss Test Set	Overview
Key Features	- Modular plug-in sources and sensors (MS9020 family)
Optical Power Sensors (family examples)	Wavelength Range: about 0.38 to 1.8 um depending on Si / InGaAs sensor

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

PARAMETER	VALUE
Specifications	Mainframe (MS9020 family / MS9020D documented reference)
Model	MS9020A
Manufacturer	Anritsu
Instrument Type	Optical loss test set (modular source + power meter)
Unit Display	W, W(REL), dBm, dB(REL); 4 digits class
Modulation	CW, 270 Hz, 1 kHz, 2 kHz (sensor dependent)
Applicable Fiber (with appropriate units)	GI, SM (ITU-T G.652), plastics

Light Source Units (family examples)

Specifications

PARAMETER	VALUE
Elements	LED, LD, EE-LED, FP-LD
Wavelengths	0.635, 0.66, 0.85, 1.3, 1.31, 1.55 um and dual-wavelength combinations
CW Output Level (examples)	LED about -47 to -10 dBm; LD/FP-LD about -3 dBm

Optical Power Sensors (family examples)

Specifications

PARAMETER	VALUE
Wavelength Range	about 0.38 to 1.8 um depending on Si / InGaAs sensor
Measurement Range	about -70 to +20 dBm CW (sensor dependent)
Accuracy	about +/-5% under reference conditions

Standard Operating Conditions

Install matching source and sensor plug-ins for the fiber type and wavelength. Zero/reference loss measurements per manual before quoting absolute loss. Use modulated mode when ambient light interferes.

Operational Notes

MS9020A performance is entirely plug-in dependent--inventory installed LD/LED and sensor modules before quoting wavelength and range. Use MS9020D published tables as the verified family reference when A-specific tables are unavailable. Confirm faceplate MS9020A vs B/C/D.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 1, 2026

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