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**Data Sheet**

August 1, 2026

ANRITSU

# Anritsu MS9020C Optical Loss Test Set w/ 1 MA9723A Sensor

Anritsu MS9020C Optical Loss Test Set w/ 1 MA9723A Sensor, Optical loss test set with high-sensitivity sensor for precise optical power and loss measurements enhancing test accuracy in fiber optic networks.



## MODEL

**Anritsu MS9020C /  
MA9723A**

## CALIBRATION

**Available on  
request**

## CONDITION

**Used**

## STATUS

**In stock**

## RFQ / SKU

**MS9020C /  
MA9723A**

## LISTING

<https://aumictechlabs.com/products/ms9020c-ma9723a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Anritsu MS9020C Optical Loss Test Set paired with the MA9723A Sensor delivers precision optical power and loss measurements across fiber optic networks. This integrated platform combines a mainframe optical power meter with a high-sensitivity germanium photodiode sensor, enabling accurate characterization of optical loss, return loss, and power levels across multiple wavelength bands. The system supports continuous wave and modulated light modes, accommodates dynamic ranges exceeding 67 dB with LD light sources, and includes a visible light source for fiber identification and fault location. Wavelength calibration functionality enables direct absolute-value readings with 5 nm step compensation across three calibration points. Technical Specifications Measurement Capability: Optical loss bands: 0.66  $\mu\text{m}$ , 0.85  $\mu\text{m}$ , 1.3  $\mu\text{m}$ , 1.55  $\mu\text{m}$  Measurement modes: Continuous Wave (CW), Modulated Light (270 Hz, 1 kHz, 2

KHz) Optical loss dynamic range: Up to 67 dB (with LD light source) Return loss measurement: 0 to 40 dB at 1.3  $\mu\text{m}$  for single-mode fiber Display resolution: 0.01 dB / 0.1 dB (dBm/dB REL mode); 0.1% to 1% (W/W REL mode) Display units: W, W (REL), dBm, dB (REL), 4-digit format Sensor Specifications (MA9723A): Wavelength range: 0.75  $\mu\text{m}$  to 1.8  $\mu\text{m}$  Measurement range: -60 dBm to +3 dBm (at 1.3  $\mu\text{m}$ , 0° to 40°C) Calibration wavelengths: 0.85  $\mu\text{m}$ , 1.3  $\mu\text{m}$ , 1.55  $\mu\text{m}$  Measurement accuracy:  $\pm 5\%$  (at -10 dBm, CW mode) Photodiode element: Germanium (Ge) Active area diameter: 1 mm Connector: FC adapter Dimensions: 30 mm (W)  $\times$  30 mm (H)  $\times$  37 mm (D) Mass:  $\leq 100$  g Environmental & Power: Operating temperature: 0° to +40°C (mainframe), 0° to +50°C (sensor) Storage temperature: -40°C to +70°C Power sources: AC adapter, Ni-Cd battery, UM-3 Alkaline/Manganese batteries Ni-Cd battery runtime: 4 hours (light on), 9 hours (light off); 6-hour charge time Auto power-off: 5 minutes inactivity Key Features Selectable measurement averaging (On/Off) Visible light source (0.635  $\mu\text{m}$ ) for fiber identification and breakpoint detection to 5 km Flickering light function for enhanced visual identification Wavelength calibration with 5 nm step compensation Blanking capability Compatibility & Integration Sensor connector: FC adapter Mainframe supports FC, ST, DIN, HMS-10/A, and SC connectors via adapter changes

## Features & description

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From manufacturer datasheet

### Features

- MS9020C mainframe with modular plug-in architecture
- Includes MA9723A optical sensor
- CW and modulated source modes (family: 270 Hz, 1 kHz, 2 kHz)
- Power display in W, dBm, and relative modes (family)
- Sensor wavelength compensation in 5 nm steps (family)
- Field portable battery/AC operation (family)

## MS9020CMA9723A Characteristics / Specifications

| PARAMETER                                                | VALUE                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical Specifications                                 | MA9723A Sensor                                                                                                                                                                                                                                                                                                |
| Model                                                    | MS9020C                                                                                                                                                                                                                                                                                                       |
| Manufacturer                                             | Anritsu                                                                                                                                                                                                                                                                                                       |
| Instrument Type                                          | Optical loss test set (modular source + power meter)                                                                                                                                                                                                                                                          |
| Modulation                                               | CW, 270 Hz, 1 kHz, 2 kHz (sensor dependent)                                                                                                                                                                                                                                                                   |
| Applicable Fiber (with appropriate units)                | GI, SM (ITU-T G.652), plastics                                                                                                                                                                                                                                                                                |
| Family Reference                                         | MS9020D published architecture and source/sensor tables                                                                                                                                                                                                                                                       |
| Wavelength Range                                         | approximately 750 to 1800 nm (0.75 to 1.8 um class)                                                                                                                                                                                                                                                           |
| Measurement Range                                        | approximately -60 to +3 dBm (CW class dealer/OEM summaries)                                                                                                                                                                                                                                                   |
| Element                                                  | InGaAs photodiode class (MS9020D sensor family tables)                                                                                                                                                                                                                                                        |
| Role                                                     | Plug-in optical power sensor for MS9020 series Standard Operating Conditions Seat the MA9723A fully before measuring. Apply wavelength calibration/compensation for the source wavelength. Zero/reference per manual for loss measurements. Observe maximum optical input; do not exceed sensor damage level. |
| Inventory any installed LD/LED source modules separately | the listing specifies one MA9723A sensor with the MS9020C mainframe. Use MS9020D tables for family source levels when C-specific sheets are unavailable.                                                                                                                                                      |
| CW and modulated source modes (family                    | 270 Hz, 1 kHz, 2 kHz)                                                                                                                                                                                                                                                                                         |

# 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                                                   |
| Model                                                                                                                                                                                                                            | MS9020C                                                     |
| Manufacturer                                                                                                                                                                                                                     | Anritsu                                                     |
| Instrument Type                                                                                                                                                                                                                  | Optical loss test set (modular source + power meter)        |
| Modulation                                                                                                                                                                                                                       | CW, 270 Hz, 1 kHz, 2 kHz (sensor dependent)                 |
| Applicable Fiber (with appropriate units)                                                                                                                                                                                        | GI, SM (ITU-T G.652), plastics                              |
| Family Reference                                                                                                                                                                                                                 | MS9020D published architecture and source/sensor tables     |
| Specifications                                                                                                                                                                                                                   |                                                             |
| PARAMETER                                                                                                                                                                                                                        | VALUE                                                       |
| Technical Specifications                                                                                                                                                                                                         | MA9723A Sensor                                              |
| Model                                                                                                                                                                                                                            | MA9723A                                                     |
| Wavelength Range                                                                                                                                                                                                                 | approximately 750 to 1800 nm (0.75 to 1.8 um class)         |
| Measurement Range                                                                                                                                                                                                                | approximately -60 to +3 dBm (CW class dealer/OEM summaries) |
| Element                                                                                                                                                                                                                          | InGaAs photodiode class (MS9020D sensor family tables)      |
| Role                                                                                                                                                                                                                             | Plug-in optical power sensor for MS9020 series              |
| Standard Operating Conditions                                                                                                                                                                                                    |                                                             |
| Seat the MA9723A fully before measuring. Apply wavelength calibration/compensation for the source wavelength. Zero/reference per manual for loss measurements. Observe maximum optical input; do not exceed sensor damage level. |                                                             |
| Operational Notes                                                                                                                                                                                                                |                                                             |
| Inventory any installed LD/LED source modules separately-the listing specifies one MA9723A sensor with the MS9020C mainframe. Use MS9020D tables for family source levels when C-specific sheets are unavailable.                |                                                             |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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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.