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Data Sheet

August 1, 2026

ANRITSU

Anritsu MT9085A – ACCESS Master Standard Dynamic Range

Anritsu MT9085A ACCESS Master Standard Dynamic Range The Anritsu MT9085A is the Standard Dynamic Range model in the ACCESS Master MT9085 series of handheld optical time-domain reflectometers for fiber installation and maintenance. It sits below the MT9085B (Enhanced) and MT9085C (High Performance) dynamic-range variants. Wavelength capability is set by module options: typical SM options provide about 39/37.5 dB at 1310/1550 nm (Option 053/063) or 37/35.5/32.5 dB at 1310/1550/1625 nm (Option 057). A hybrid Option 063 also supports multimode 850/1300 nm at about 29/28 dB. Event (Fresnel) dead zone is typically 0.8 m (less than or equal to 1 m). The Anritsu MT9085A is the Standard Dynamic Range model in the ACCESS Master MT9085 series of handheld optical time-domain reflectometers for fiber installation and maintenance. It sits below the MT9085B (Enhanced) and MT9085C (High Performance) dynamic-range variants. Wavelength capability is set by module options: typical SM options provide about 39/37.5 dB at 1310/1550 nm (Option 053/063) or 37/35.5/32.5 dB at 1310/1550/1625 nm (Option 057). A hybrid Option 063 also supports multimode 850/1300 nm at about 29/28 dB. Event (Fresnel) dead zone is typically 0.8 m (less than or equal to 1 m). Installation and maintenance of premise, access, and metro fiber; SMF I&M with optional macrobend analysis at 1625 nm; hybrid SMF/MMF testing with Opt



MODEL

Anritsu MT9085A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MT9085A

LISTING

<https://aumictechlabs.com/products/mt9085a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MT9085A ACCESS Master is a handheld optical time domain reflectometer (OTDR) for fiber optic link characterization and fault localization across core, metro, mobile fronthaul/backhaul, and access networks. This instrument delivers high-resolution measurements and event detection with straightforward operation, supporting fiber spans up to 200 km and PON networks up to 1 × 128 branches.

Technical Specifications

Optical Performance Dynamic range: 39 dB (1310 nm SMF) / 37.5 dB (1550 nm SMF) Event dead zone: ≤ 1 m Backscatter dead zone: ≤ 5 m (1310 nm) / ≤ 5.5 m (1550 nm) Maximum fiber length: 200 km Operating wavelengths: 1310 nm and 1550 nm (single-mode fiber) User Interface 8-inch color LCD touchscreen with rotary knob and dedicated hard keys Real-time sweep modes: high-speed and high signal-to-noise ratio Trace magnification, cursor operation, and marker positioning Data & Connectivity WLAN, Bluetooth, and USB memory data transfer Telcordia format support 12-hour battery operation

Key Features

Fiber continuity break detection and event localization (splices, connectors, breaks, macrobends) Optical loss and reflectance measurement with high-accuracy detection Fiber end-face inspection capability Fiber Visualizer function for schematic path analysis with at-a-glance event confirmation Automatic Pass/Fail evaluation based on preset thresholds and international standards Built-in light source, optical power meter, and visual light source options PON network measurement support (up to 1 × 128 branches)

Typical Applications

Installation and maintenance of single-mode fiber networks Mobile fronthaul and backhaul infrastructure verification Access and metro network commissioning and troubleshooting Core network fiber characterization Fast fiber bend location and connection status monitoring

Compatibility & Integration

The MT9085A integrates optional built-in modules for light source, optical power measurement, and visual light source functions. It maintains operational familiarity with the ACCESS Master series, enabling efficient field deployment across diverse network environments.

Features & description

From manufacturer datasheet

Features

- ACCESS Master handheld OTDR platform • Standard Dynamic Range class (MT9085A) • Large touchscreen GUI for field I&M • HR (high resolution) and ER (enhanced range / PON) modes • Optional built-in light source, optical power meter, VFL, and VIP • Lithium-ion battery operation with AC adapter
- Softkey automation for fault location and event tables

MT9085A Characteristics / Specifications

PARAMETER	VALUE
Model	MT9085A
Manufacturer	Anritsu
Instrument Type	Handheld OTDR – Standard Dynamic Range
Series	MT9085 ACCESS Master (A/B/C) Wavelength Options (examples)
Fresnel Dead Zone	less than or equal to 1 m; 0.8 m typical
Fiber	SMF ITU-T G.652; MM per option
Pulse Widths	3 ns to 20000 ns class (wavelength/option dependent)
Dynamic Range Conditions	typically 20 us pulse, 100 km range, 180 s average, SNR=1, 25 C (SM options)
Laser Safety	IEC 60825-1 Class 1 Standard Accessories (series) Z0921A battery pack; Z1625A AC adapter; power cord; operation manual / quick guide Family Context
MT9085A	Standard Dynamic Range (about 39 dB class at 1310 nm)
MT9085B	Enhanced Dynamic Range (about 42 dB class)
MT9085C	High Performance Dynamic Range (about 46 dB class) Standard Operating Conditions Clean connectors before testing. Select correct fiber type and IOR. Confirm installed wavelength option on the unit label before quoting dynamic range.
Fiber type	and IOR. Confirm installed wavelength option on the unit label before quoting dynamic range.

MT9085A Specifications

PARAMETER	VALUE
Anritsu MT9085A ACCESS Master Standard Dynamic Range	Overview
Technical Specifications	Model: MT9085A
Wavelength Options (examples)	MT9085A-053: 1310/1550 nm SM; dynamic range 39/37.5 dB; backscatter dead zone less than or equal to 5/5.5 m
Common Optical Specs (brochure conditions)	Fresnel Dead Zone: less than or equal to 1 m; 0.8 m typical
Standard Accessories (series)	Z0921A battery pack; Z1625A AC adapter; power cord; operation manual / quick guide
Family Context	MT9085A: Standard Dynamic Range (about 39 dB class at 1310 nm)

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.

Performance) dynamic-range variants. Wavelength capability is set by module options: typical SM options provide about 39/37.5 dB at 1310/1550 nm (Option 053/063) or 37/35.5/32.5 dB at 1310/1550/1625 nm (Option 057). A hybrid Option 063 also supports multimode 850/1300 nm at about 29/28 dB. Event (Fresnel) dead zone is typically 0.8 m (less than or equal to 1 m).

Applications
Installation and maintenance of premise, access, and metro fiber; SMF I&M with optional macrobend analysis at 1625 nm; hybrid SMF/MMF testing with Option 063; field OTDR with integrated light source, optical power meter, visual fault locator, and video inspection probe support.

- Key Features
- ACCESS Master handheld OTDR platform
 - Standard Dynamic Range class (MT9085A)
 - Large touchscreen GUI for field I&M
 - HR (high resolution) and ER (enhanced range / PON) modes
 - Optional built-in light source, optical power meter, VFL, and VIP
 - Lithium-ion battery operation with AC adapter
 - Softkey automation for fault location and event tables

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	MT9085A
Manufacturer	Anritsu
Instrument Type	Handheld OTDR – Standard Dynamic Range
Series	MT9085 ACCESS Master (A/B/C)

Wavelength Options (examples)
MT9085A-053: 1310/1550 nm SM; dynamic range 39/37.5 dB; backscatter dead zone less than or equal to 5/5.5 m
MT9085A-057: 1310/1550/1625 nm SM; dynamic range 37/35.5/32.5 dB; backscatter dead zone less than or equal to 6/6.5/7.5 m
MT9085A-063: 1310/1550 nm SM (39/37.5 dB) and 850/1300 nm MM (29/28 dB)
Common Optical Specs (brochure conditions)

Specifications

PARAMETER	VALUE
Fresnel Dead Zone	less than or equal to 1 m; 0.8 m typical
Fiber	SMF ITU-T G.652; MM per option
Pulse Widths	3 ns to 20000 ns class (wavelength/option dependent)
Dynamic Range Conditions	typically 20 us pulse, 100 km range, 180 s average, SNR=1, 25 C (SM options)
Laser Safety	IEC 60825-1 Class 1

Standard Accessories (series)
Z0921A battery pack; Z1625A AC adapter; power cord; operation manual / quick guide

Specifications

PARAMETER	VALUE
MT9085A	Standard Dynamic Range (about 39 dB class at 1310 nm)
MT9085B	Enhanced Dynamic Range (about 42 dB class)
MT9085C	High Performance Dynamic Range (about 46 dB class)

Standard Operating Conditions

Clean connectors before testing. Select correct fiber type and IOR. Confirm installed wavelength option on the unit label before quoting dynamic range.

Operational Notes

MT9085A is the mainframe dynamic-range class; at least one wavelength option (053/057/063) must be installed. Replacement for older MW9070B / MW9076 field OTDRs in Anritsu literature.

Ordering Information

OPTION	DESCRIPTION
Option 063	also supports multimode 850/1300 nm at about 29/28 dB. Event (Fresnel) dead zone is typically 0.8 m (less than or equal to 1 m).

Laser Safety: IEC 60825-1 Class 1 Standard Accessories (series) Z0921A battery pack; Z1625A AC adapter; power cord; operation manual / quick guide Family Context MT9085A: Standard Dynamic Range (about 39 dB class at 1310 nm) MT9085B: Enhanced Dynamic Range (about 42 dB class) MT9085C: High Performance Dynamic Range (about 46 dB class) Standard Operating Conditions Clean connectors before testing. Select co

Available from Aumictech

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

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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.