

ANRITSU

S331D

The Anritsu Site Master S331D is a handheld cable and antenna analyzer (Site Master series) covering 25 MHz to 4.0 GHz. It provides Return Loss/SWR, Cable Loss and Frequency Domain Reflectometry (FDR) Distance-to-Fault (DTF) analysis for installation, maintenance and troubleshooting of wireless base station cabling and antennas.

SPECIFICATIONS

General

Interfaces	RS-232 serial
Display	Daylight-viewable TFT color display

Physical

Power Supply	Rechargeable field-replaceable battery; AC adapter/charger; 12 V automobile (cigarette-lighter) adapter optional (accessory), not included
Weight	under 5 lb (including battery) kg

Product Identification

Manufacturer	Anritsu
Model Name / Number	Site Master S331D
Product Description	Handheld Site Master cable and antenna analyzer with return loss/ VSWR, cable loss, and FDR DTF measurements
Primary Application	Installation, provisioning, maintenance and troubleshooting of wireless base station cable and antenna systems

Performance — General Measurement

Frequency Range	25 MHz to 4.0 GHz
Return Loss Range	0.00 to 60.00 dB
Return Loss Resolution	0.01 dB
VSWR Range	1.00 to 65.00
VSWR Resolution	0.01
Cable Loss Range	0.00 to 30.00 dB
Cable Loss Resolution	0.01 dB
Measurement Display Vertical Range	Return Loss: 0.00 to 60.00 dB; VSWR: 1.00 to 65.00

Measurement Functions & Algorithms

Measurement Modes / Capabilities	Return Loss/SWR, Cable Loss, Frequency Domain Reflectometry (FDR) Distance-to-Fault (DTF); optional power meter
Built-in Average Cable Loss	Built-in automatic average cable loss calculation
DTF / Fault Location	Frequency Domain Reflectometry (FDR) DTF analysis to locate faults accurately
Long-range Fault Location Capability	Locate long-range problems using up to 517 data points
Power Measurement Options Summary	Optional broadband power monitor (Option 5) with inline/terminating sensors; no High Accuracy Power Meter (Option 19) for S331D

Data Acquisition, Storage & Reporting

Number of Data Points (trace lengths)	130, 259, 517
Trace Labelling & Stamping	Alphanumeric labeling of saved measurements; automatic time and date stamp
Trace Points Options and Effect	130, 259 or 517 points selectable; horizontal range and resolution depend on point count and frequency span
Automatic Time & Date Stamp	Automatic time and date stamping of saved data

Performance Specifications (Accuracy & Uncertainty)

Corrected Directivity After Calibration	>42 dB
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Display, User Interface & Controls

Distance Units	Meters and feet
Built-in Signal & Cable Standards	Built-in cable lists (user-editable); no built-in signal standards
Display Type (marketing)	Monochrome transfective LCD (daylight-viewable)

Physical / Mechanical

Handheld Design	Handheld, battery-operated design intended for field use
Weight (marketing)	Weighs less than 5 pounds (including battery)

Interfaces

External Interfaces Mentioned	RS-232; AC/DC power input; 12 V automobile adapter input
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Power & Battery

Field Replaceable Battery	Rechargeable, field-replaceable battery
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User Documentation & Support

User Documentation Included	User's guide included
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TECHNOLOGY

Frequency Domain Reflectometry (FDR)

APPLICATIONS

Installation, provisioning, maintenance and troubleshooting of wireless base station cable and antenna systems (VHF, paging, cellular, PCS/GSM, 3G, ISM, WLAN, WLL, broadcast)

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.