

ANRITSU

S820D

The Anritsu Site Master S820D is a portable, handheld broadband microwave cable and antenna analyzer designed for installation, verification, troubleshooting, and repair of radar and microwave communication systems. Operating from 25 MHz to 20 GHz (and extendable down to 2 MHz with Option 2), it employs patented Frequency Domain Reflectometry (FDR) technology and 1-port vector error correction to provide highly accurate return loss, VSWR, cable loss, and distance-to-fault measurements on both coaxial and waveguide systems.

SPECIFICATIONS

General

Interfaces	RS-232
Display	Standard TFT daylight viewable color display

Physical

Power Supply	AC/DC Power Supply, 12 V DC cigarette lighter adapter, or rechargeable battery
Operating Temperature	-10 °C to 55 °C °C

Frequency and RF Performance

Standard Frequency Range	25 MHz to 20 GHz
Extended Frequency Range	2 MHz to 20 GHz (with Option 2)
Frequency Resolution	100 kHz
Interference Immunity	Patented RF interference rejection
RF Port Impedance	50 Ω

Measurement Capabilities

Measurement Formats	VSWR, Return Loss, Cable Loss, Distance-to-Fault (DTF)
Distance Units	Feet, Meters
Markers	6 Markers, Limit Lines, Segmented Limit Lines
Media Compatibility	Coaxial cable, Waveguide

Calibration and Corrected Performance

Waveguide Dispersion Correction	Supported (improves waveguide fault distance accuracy)
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Display and User Interface

Language Support	English, French, Chinese, Japanese, Spanish, German
Pop-up Setup Menus	Pop-up menus for cable list, waveguide list, and compatible flange list

Data Storage and Software

Internal Trace Storage	Up to 200 traces
Trace Labeling	Alphanumeric labeling
Automatic Trace Timestamping	Automatic time and date stamp

Power and Battery

Battery Type	Rechargeable, field-replaceable NiMH
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Physical and Environmental

Storage Temperature Range	-20 °C to 75 °C
Form Factor	Handheld, battery-operated

Hardware Options and Accessories

Option 2	2 MHz Low-Frequency Extension
Option 5	Power Monitor
Standard Adapter Accessory	Ruggedized K(m) to N(f) adapter (Part No. 34RKNF50)
Standard Case Accessory	Soft carrying case

TECHNOLOGY

Frequency Domain Reflectometry (FDR)

APPLICATIONS

Microwave and RF transmission line and antenna testing

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