ANRITSU

S331C/S332C

The Anritsu Site Master S331C and S332C are rugged, handheld cable and antenna analyzers designed for field testing and maintaining coaxial cable and antenna systems. Equipped with a built-in synthesized signal source, they provide precise measurements for SWR, return loss, and Distance-To-Fault (DTF). The S332C model adds comprehensive spectrum analysis capabilities, making it a highly versatile tool for identifying and troubleshooting RF interference and signal performance in the field.

SPECIFICATIONS

General

Interfaces	RS-232 serial port
Display	Liquid Crystal Display (LCD) with backlight
Display Type	Monochrome LCD

Physical

Power Supply	12.5 Vdc external source or field-replaceable battery
Operating Temperature	-10 °C to 55 °C °C
Dimensions (W×H×D)	254 mm x 178 mm x 61 mm mm
Weight	1.36 kg kg

Frequency Specifications

Frequency Range	25 to 3300 MHz
Frequency Resolution	100 kHz
Built-In Signal Source	Synthesized signal source

Measurement Capabilities & Performance

Measurement Capabilities	SWR, Return Loss, Cable Insertion Loss, One-port Transmission Line Loss, Distance-to-Fault (DTF)
SWR Range	1.00 to 65.00
SWR Resolution	0.01
Return Loss Range	0.00 to 54.00 dB
Return Loss Resolution	0.01 dB
Cable Insertion Loss Range	0.00 to 54.00 dB
Cable Insertion Loss Resolution	0.01 dB
RF Power Monitor Display Range (Optional)	-80.0 to +80 dBm (10.0 pW to 100.0 kW)
RF Power Monitor Detector Range (Optional)	-50 dBm to +20 dBm (10 µW to 100 mW)
RF Power Monitor Offset Range (Optional)	0 to +60.0 dB

RF Port Specifications

Test Port Connector Type	Type N, female
Test Port Impedance	50 Ω
Test Port Max Input DC Voltage	+50 Vdc

Spectrum Analyzer (S332C Specific)

Spectrum Analyzer Frequency Range (S332C)	100 kHz to 3.0 GHz
Spectrum Analyzer Frequency Reference Aging	±1 ppm/yr
Spectrum Analyzer Frequency Reference Accuracy	±2 ppm
Resolution Bandwidth (RBW) Selection	10 kHz, 30 kHz, 100 kHz, 1 MHz
Video Bandwidth (VBW) Selection	100 Hz to 300 kHz (in 1-3 sequence)
Spurious Residual Responses	≤-90 dBm (at ≥500 kHz)
Amplitude Measurement Range	-95 dBm to +20 dBm (typical)
Dynamic Range	≥65 dB (typical)
DANL (<500 kHz)	≤-80 dBm (typical)

Display and User Interface

Limit Alarms	Audible beep when limit value is exceeded
Keypad Type	Front panel data entry keypad

Power and Battery System

Battery Type	Field-replaceable battery

Data Storage and Management

Internal Trace Memory Capacity	Up to 200 traces
Internal Setup Memory Capacity	Up to 10 setups

Measurement Calibration

Calibration Methods	OSL (Open/Short/Load), FlexCal

Measurement Performance

Data Points	130, 259, 517 selectable

Spectrum Analyzer Performance (S332C)

SSB Phase Noise (S332C)	≤ -75 dBc/Hz at 30 kHz offset

Compliance & Safety

Electromagnetic Compatibility	Meets European Community requirements for CE marking

Power

External DC Input Voltage	12.5 VDC to 15 VDC
External DC Input Current	1.1 A max.

TECHNOLOGY

RF Cable, Antenna, and Spectrum Analysis

APPLICATIONS

Cellular, wireless, and antenna system field installation and maintenance