

ROHDE & SCHWARZ

ZVR

The Rohde & Schwarz ZVR is a high-performance 2-port Vector Network Analyzer belonging to the ZV Family. Covering a broad frequency range from 10 Hz to 4 GHz, it features exceptional dynamic range, extremely low inherent noise, and rapid measurement speeds. Operating on a Windows NT platform, the ZVR provides highly accurate manual and automatic calibration capabilities, making it ideal for both active and passive RF component characterization.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE 488.2), Keyboard (mini-DIN), Mouse (mini-DIN), Printer (Parallel), Serial (RS-232), External VGA
Display	9.5-inch active color LCD
Floppy Disk Drive	3.5", 1.44 MB

Physical

Power Supply	100 V to 240 V AC, 47 Hz to 63 Hz, max. 350 VA
Operating Temperature	+5 °C to +40 °C °C
Dimensions (W×H×D)	435 mm × 281 mm × 582 mm mm
Weight	27 kg kg

Frequency & Stimulus

Frequency Range	10 Hz to 4 GHz
Frequency Resolution	10 mHz
Number of Test Ports	2
Test Port Impedance	50 Ω

Hardware Interfaces & Connections

Test Port Connector Type	N-type female
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Receiver & Dynamic Range

System Dynamic Range	>130 dB (IF bandwidth 10 Hz)
Receiver Inherent Noise	<-130 dBm (measurement bandwidth 10 Hz)

Measurement Speed & Settings

Measurement Time per Point (Normalized)	<125 μs
Measurement Time per Point (Fully Calibrated)	<240 μs
Data Transfer Time	<15 ms (for 200 points via IEC/IEEE bus)
Sweep Rate	>>25 sweeps/s (200 points)

Measurement Capabilities & Calibration

Manual Calibration Techniques	TOM, TRM, TRL, TNA, TOM-X, TOSM
Automatic Calibration	AutoKal

System, Controller & Storage

Internal Operating System	Windows NT
Remote Control Command Language	SCPI

Performance

Number of Display Channels	4
IF Bandwidth Range	1 Hz to 10 kHz
Number of Measurement Points	2 to 1601
Measurement Formats	Log magnitude, linear magnitude, phase, group delay, Smith chart, polar, SWR, real, imaginary

Inputs & Outputs

External Reference Input/Output	10 MHz
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Source (Stimulus)

Output Power Range	-95 dBm to +10 dBm (standard)
Output Power Resolution	0.1 dB
Harmonics	<-30 dBc (at 0 dBm output power)
Non-Harmonics (Spurious)	<-35 dBc (typically <-45 dBc)

Receiver

Maximum RF Input Level	+20 dBm
Maximum Input DC Voltage	30 V

TECHNOLOGY

Vector Network Analyzer

APPLICATIONS

RF component characterization, S-parameter measurements, active and passive network analysis

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