KEYSIGHT TECHNOLOGIES (AGILENT HP)

4395A

The Agilent / HP 4395A is a highly integrated 10 Hz to 500 MHz combination analyzer providing exceptional vector network, spectrum, and optional impedance measurements in a single instrument. With direct A/D conversion and a fully-synthesized local oscillator, it offers fast and accurate evaluation of gain, phase, group delay, distortion, spurious responses, and noise for lab and production environments.

SPECIFICATIONS

General

Interfaces	GPIB (HP-IB)
Warm-Up Time	30 minutes

Physical

Power Supply	90 to 132 V / 198 to 264 V, 47 to 63 Hz, 300 VA max
Operating Temperature	0 to 40 °C
Dimensions (W×H×D)	425 × 235 × 553 mm

Network Analysis (VNA) Specifications

Frequency Range	10 Hz to 500 MHz
Frequency Resolution	1 mHz
Source Power Range	-50 to +15 dBm
Source Power Resolution	0.1 dB
Dynamic Magnitude Accuracy	±0.05 dB
Dynamic Phase Accuracy	±0.3°

Impedance Analysis Specifications (Option)

Impedance Analysis Option	Supported (with optional test kit)

Data Processing & Control Features

Test Automation	Built-in IBASIC

Interfaces & Connectivity

Mass Storage	Built-in disk drive / RAM disk

Sweep & Measurement

Sweep Modes	Linear frequency, log frequency, list frequency, power sweep, CW time
Number of Channels	2 independent channels
Trace Math	Data / Memory, Data - Memory

Network Analysis

Display Formats (Network Analyzer)	Log magnitude, linear magnitude, phase, group delay, Smith chart, polar, SWR, real, imaginary
Measurement Parameters (Network)	A/R, B/R, A/B (Transmission/Reflection); S-parameters (with external S-parameter test set)

Impedance Analysis (Option 010)

Measurement Parameters (Impedance)	|Z|, |Y|, θ, R, X, G, B, L, C, D, Q (requires Option 010 and 43961A Impedance Test Kit)

Environmental

Operating Humidity	15% to 80% RH at 40 °C (non-condensing)

Network Analyzer Specifications

Network Analyzer Dynamic Range	>115 dB (at 10 Hz IFBW)
Network Analyzer IF Bandwidth	10 Hz to 30 kHz
Calibration Types	Response, Response & Isolation, 1-Port OSL, Full 2-Port (with external test set)

Sweep & Analysis

Number of Data Points	2 to 801 points

Spectrum Analyzer Specifications

Spectrum Analyzer Input Attenuator	0 to 50 dB (in 10 dB steps)

Inputs & Outputs

Maximum Safe Input Level	+30 dBm, 0 Vdc (with >=10 dB attenuation)
Receiver Input Ports	R, A, B (50 Ω Type-N female)
Nominal Impedance	50 Ω (75 Ω available via Option 1D7 system impedance conversion)

Options & Features

High Stability Frequency Reference	Available via Option 1D5

TECHNOLOGY

Combination Network / Spectrum / Impedance Analyzer

APPLICATIONS

Component and circuit evaluation (gain, phase, group delay, distortion, spurious, C/N, and noise measurements)