

KEYSIGHT TECHNOLOGIES (AGILENT HP)

89410A

The Agilent/Keysight 89410A is a high-performance Vector Signal Analyzer designed for baseband and IF signal analysis from DC to 10 MHz. It features advanced analog demodulation capabilities (AM/FM/PM) and an internal flexible signal source for circuit stimulation, supporting sine, periodic chirp, pseudo-random noise, and arbitrary waveforms. With the optional second channel, it enables comprehensive two-channel statistical measurements such as cross-correlation, frequency response, and coherence.

SPECIFICATIONS

General

Mass Storage	3.5-inch 1.44 MB floppy drive
Key Upgrades & Options	AY7 (Second channel), AY9 (1 MSa extended time capture), AYA (Vector modulation analysis), AYB (Waterfall/spectrogram displays)

Physical

Operating Temperature	0 to +55 °C
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Frequency Characteristics

Frequency Range	DC to 10 MHz
Resolution Bandwidth Range	312.5 μ Hz to 3 MHz

Input Characteristics

Number of Channels	1 (Standard), 2 (Optional)
Input Impedance	50 Ω , 75 Ω , 1 M Ω (Selectable)

Measurement and Math Functions

Measurement Types (2-Channel)	Frequency response, coherence, cross spectrum, cross correlation (Requires optional 2nd channel)
Windowing Functions	Flat-top, Gaussian-top, Hanning, Uniform

Display Characteristics

Data Display Formats	Log magnitude, linear magnitude, phase (wrap or unwrap), real part, imaginary part, group delay
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Inputs & Outputs

Input Connectors	BNC (female)
External Trigger Input	BNC (female)

Performance

Internal Sample Rate	25.6 MSa/s
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TECHNOLOGY

Vector Signal Analysis

APPLICATIONS

Baseband Signal Analysis, Analog Demodulation, Circuit Stimulation, W-CDMA

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