

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8901A

The Keysight (Agilent/HP) 8901A is a high-performance Modulation Analyzer that combines the capabilities of a highly accurate RF power meter, an RF frequency counter, and a low-distortion modulation receiver. Operating in the 150 kHz to 1300 MHz range, it provides fully automatic, highly precise measurements of AM, FM, and phase modulation.

SPECIFICATIONS

General

Interfaces	HP-IB (GPIB)
Display	7-segment LED

RF Input and Carrier Frequency

Carrier Frequency Range	150 kHz to 1300 MHz
Tuning Modes	Automatic and Manual
RF Input Impedance	50 Ω nominal
Sensitivity	12 mVrms for carrier 150 kHz to 650 MHz; 22 mVrms for carrier 650 MHz to 1300 MHz

Amplitude Modulation Demodulation

AM Carrier Frequency Range	150 kHz to 1300 MHz
AM Modulation Rate Range	20 Hz to 100 kHz

Frequency Modulation Demodulation

FM Carrier Frequency Range	150 kHz to 1300 MHz
FM Modulation Rate Range	20 Hz to 200 kHz
Maximum FM Deviation Range	Up to 400 kHz peak

Phase Modulation Demodulation

Phase Modulation Carrier Frequency Range	150 kHz to 1300 MHz
Phase Modulation Rate Range	200 Hz to 20 kHz
Phase Deviation Measurement Range	Up to 400 rad peak

Audio Frequency Measurement & Filters

Audio High-Pass Filters	50 Hz, 300 Hz
Audio Low-Pass Filters	3 kHz, 15 kHz, > 20 kHz
De-emphasis Filters	25 μ s, 50 μ s, 75 μ s, 750 μ s

Demodulator Outputs and Calibrators

Internal AM Calibrator Output Level	33.33% depth
Internal AM Calibrator Accuracy	±0.1%
Internal FM Calibrator Deviation	34 kHz peak
Internal FM Calibrator Accuracy	±0.1%
Demodulated AM Output Impedance	600 Ω
Demodulated FM Output Impedance	600 Ω

Internal Timebase

Reference Frequency	10 MHz
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Inputs & Outputs

RF Input Connector	Type-N (female)
Demodulated Output Connector	BNC (female)
Calibrator Output Connector	Type-N (female)
External Reference Input Connector	BNC (female)
Reference Output Connector	BNC (female)

APPLICATIONS

Test equipment > Analyzers Signal > Modulation

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