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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8990B

Agilent Keysight 8990B Peak Power Analyzer The Agilent/Keysight 8990B is a peak power analyzer platform used with compatible peak-power sensors for pulsed and peak RF/microwave power measurements. OEM peak-power analyzer literature pairs the 8990B with wideband sensors for time-domain power analysis across microwave bands. Radar/pulse power characterization, peak-to-average measurements, and time-gated RF power analysis with compatible sensors. Compatible wideband peak power sensor ecosystem The Agilent/Keysight 8990B is a peak power analyzer platform used with compatible peak-power sensors for pulsed and peak RF/microwave power measurements. OEM peak-power analyzer literature pairs the 8990B with wideband sensors for time-domain power analysis across microwave bands. Radar/pulse power characterization, peak-to-average measurements, and time-gated RF power analysis with compatible sensors. Compatible wideband peak power sensor ecosystem Measurement Class: peak pulsed and time-domain RF power



MODEL

**Agilent / Keysight
8990B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8990B

LISTING

<https://aumictechlabs.com/products/8990b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 8990B Peak Power Analyzer measures and characterizes RF and microwave pulsed signals with high precision across radar, wireless communications, and electronic warfare applications. This instrument delivers 15 automatic pulse parameter measurements - including rise time, fall time, pulse width, duty cycle, PRI, PRF, peak power, average power, and peak-to-

average ratio - with 0.2 dB overall accuracy. A 160 MHz video bandwidth enables analysis of wideband signals such as 802.11ac, while dual sampling modes (100 MSa/s real-time and 1 GSa/s ETS) support both standard and equivalent-time measurements. System rise and fall times reach 5 ns with wideband power sensors. The 15-inch XGA touchscreen displays up to four channels simultaneously, with intuitive controls including Autoscale, dual-window zoom, automated delay and pulse droop analysis, and selectable pulse isolation for targeted characterization. Power-Added Efficiency (PAE) measurement is supported through RF power, voltage, and current monitoring with appropriate probes and sensors. Minimum pulse width resolution is 10 ns, with dynamic range from -32 dBm to +20 dBm.

Technical Specifications
Frequency Range: 50 MHz to 40 GHz (sensor dependent)
Dynamic Range: -32 dBm to +20 dBm
Video Bandwidth: 160 MHz (at +10 dBm)
Sampling Rate: 100 MSa/s (real-time), 1 GSa/s (ETS mode)
System Rise/Fall Time: 5 ns (with N1923A/N1924A sensors)
Minimum Pulse Width: 10 ns
Measurement Accuracy: 0.2 dB
Display: 15-inch XGA color touchscreen, four-channel simultaneous view

Key Features
15 automatic pulse parameter measurements (rise time, fall time, pulse width, duty cycle, PRI, PRF, peak power, average power, peak-to-average ratio, CCDF, automated pulse droop, automated delay between pulses, pulse spacing)
Multi-pulse analysis with optional configurations
Power-Added Efficiency (PAE) measurement capability
Amplitude and time markers for precise positioning
Dual-window zoom for detailed waveform analysis
Internal and external triggering with three-step setup
Autoscale function via single-touch interface

Typical Applications
Radar system characterization
Wireless communication signal analysis
Electronic warfare signal measurement
Pulsed RF amplifier verification
Wideband modulation analysis

Compatibility & Integration
Compatible with N1923A wideband power sensor (50 MHz to 18 GHz)
Compatible with N1924A wideband power sensor (50 MHz to 40 GHz)
Supports multi-pulse configurations including 8990B-1FP and N6903A
Integrates with external probe and current sensor solutions for PAE calculations

8990B Characteristics / Specifications

PARAMETER	VALUE
Model	8990B
Instrument Type	peak power analyzer
Measurement Class	peak pulsed and time-domain RF power
Sensor Dependency	requires compatible peak power sensor
Video Bandwidth Class	100 MHz class peak-power analyzer platform
Frequency Coverage	determined by attached sensor (example N1924A class path to 40 GHz)
Brand Lineage	HP / Agilent / Keysight
Form Factor	benchtop peak power analyzer
Remote Interface	GPIB class
Display	power versus time display class
Triggering	internal/external pulse trigger class
Analysis	peak average peak-to-average class measurements
Family	8990 peak power analyzers
Operating Context	radar and pulsed RF power test
Calibration Note	absolute power accuracy follows sensor calibration certificate
Input Path	via peak power sensor interconnectSensor Interface: peak power sensor interconnect
Measurement Modes	peak average peak to average
Time Domain Display	power versus time
Trigger Sources	internal and external class
Compatible Sensor Example Class	N1924A path to 40 GHzBrand Lineage: HP / Agilent / Keysight
Documentation Source	OEM datasheet model row
Bandwidth	Class: 100 MHz class peak-power analyzer platform

8990B Specifications

PARAMETER	VALUE
Agilent Keysight 8990B Peak Power Analyzer	Overview
Technical Specifications	Model: 8990B
Notes	From Agilent/Keysight 8990B peak power analyzer product documentation. Exact frequency span and power range are sensor-dependent.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.