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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 8015A 50 MHZ DUAL-OUTPUT PULSE GENERATOR

HP Agilent 8015A 50 MHz Dual Output Pulse Generator The HP 8015A is a 50 MHz dual-output pulse generator with independent ± 16 V channels and an A+B mode providing up to 30 V within a ± 16 V window. OEM documentation highlights B-delay relative to channel A, double-pulse and square-wave modes, plus TTL output for complex and three-level waveform synthesis. Used for two-phase clock generation, critical timing analysis, multilevel and biomedical-style signal simulation, TTL-compatible digital stimulus, and general dual-channel pulse testing to 50 MHz. The HP 8015A is a 50 MHz dual-output pulse generator with independent ± 16 V channels and an A+B mode providing up to 30 V within a ± 16 V window. OEM documentation highlights B-delay relative to channel A, double-pulse and square-wave modes, plus TTL output for complex and three-level waveform synthesis. Used for two-phase clock generation, critical timing analysis, multilevel and biomedical-style signal simulation, TTL-compatible digital stimulus, and general dual-channel pulse testing to 50 MHz.



MODEL

HP / Agilent 8015A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8015A

LISTING

<https://aumictechlabs.com/products/8015a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 8015A is a dual-output pulse generator delivering precise pulse generation from 1 Hz to 50 MHz. This instrument provides independent control over two output channels with

selectable amplitude up to 16 V per channel, or 30 V when outputs are combined in A + B mode. Engineers use it to generate complex pulse patterns, simulate digital signals, and execute sophisticated timing applications across research, design validation, and component testing.

Technical Specifications

Timing Performance

Repetition rate: 1 Hz to 50 MHz (square wave and double pulse to 25 MHz; A + B mode to 40 MHz; B delay to 20 MHz)

Pulse width: <10 ns to 1 s across four ranges; square wave width from 10 ns to 1 s

Pulse delay: 20 ns to 1 s with 25 ns fixed offset; interchannel and double pulse delay selectable

Width jitter: <0.1% + 50 ps

Delay jitter: 30 ns): maximum 5% deviation from straight line between 10% and 90% points

Overshoot/ringing: $\pm 5\%$ of pulse amplitude

Preshoot: <5% of pulse amplitude

Pulse droop: <5% of pulse amplitude

Key Features

Five trigger modes: NORM (internal), GATE, EXT, TRIG, and EXT WIDTH

External trigger input impedance: 50 Ω or 500 Ω selectable with variable threshold (± 1 V at 50 Ω ; ± 10 V at 500 Ω)

Selectable trigger slope (positive or negative)

B delay mode for generating 3-level waveforms and complex pulse sequences

Double pulse mode with interchannel delay control

Typical Applications

Digital signal simulation and validation

Timing and synchronization testing

Component characterization requiring dual-phase stimulus

Complex waveform generation for device qualification

Compatibility & Integration

Dual output architecture supports both series and independent operation. Selectable output impedance and threshold levels enable direct interfacing with TTL logic and 50 Ω systems.

8015A Characteristics / Specifications

PARAMETER	VALUE
Repetition rate	1 Hz to 50 MHz in four ranges
Period jitter	less than 0.1% + 50 ps
Square wave range	0.5 Hz to 25 MHz
Double pulse maximum rate	25 MHz (simulates 50 MHz)
B delay maximum rate	20 MHz
Pulse width range	10 ns to 1 s
Delay range	20 ns to 1 s
Delay jitter	less than 0.1% + 50 ps
Amplitude per channel into 50 ohm	up to ± 16 V
Trigger pulse width	9 ns $\pm$ 5 ns
External triggering rate	0 to 50 MHz
External threshold 50 ohm input	+1 V to -1 V
External threshold 500 ohm input	+10 V to -10 V
Maximum internal input	± 7 V
Trigger polarity	positive or negative slope selectable
Operating temperature	0 °C to 55 °C
Power	100/120/220/240 V AC
Power consumption	180 VA max
Number of pulse outputs	2 plus TTL
Primary maximum repetition rate	50 MHz
Per channel amplitude	± 16 V
Combined amplitude	30 V
Width min	10 ns
Width max	1 s
Delay min	20 ns

PARAMETER	VALUE
Delay max	1 s

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Primary maximum repetition rate	50 MHz
Per channel amplitude	±16 V
Combined amplitude	30 V
Width min	10 ns
Width max	1 s
Delay min	20 ns
Delay max	1 s Notes Specifications are compiled from HP/Agilent 8015A product literature and operating/service manual summaries (Keysight p/n 08015-90008 family). Exact transition-time tables should be confirmed on the specific instrument's performance test record.

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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B delay maximum rate	20 MHz
Pulse width range	10 ns to 1 s
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Delay jitter	less than 0.1% + 50 ps
Amplitude per channel into 50 ohm	up to ±16 V
Combined A+B amplitude: up to 30 V within ±16 V window	
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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

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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.