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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 3245A

The HP 3245A Universal Source combines precision DC voltage/current with AC and arbitrary waveforms in one HP-IB instrument. OEM 3245A literature lists DC and AC to 1 MHz-class waveforms, dual-channel option, 0.0015 percent-class DC voltage accuracy in product summaries, and isolated outputs for analog-stimulus ATE. Mixed-signal ATE stimulus: precision DC bias plus AC/ARB waveforms under HP-IB. Precision analog stimulus for mixed-signal test

Instrument Type: Universal source (DC plus AC/ARB) Instrument Type: Universal source (DC plus AC/ARB) Dc Function: precision DC voltage and current Ac Function: AC and arbitrary waveforms to 1 MHz class Channels: single channel standard; dual-channel option listed in 3245A summaries



MODEL

**Agilent / Keysight
3245A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3245A

LISTING

<https://aumictechlabs.com/products/3245a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 3245A is a universal source instrument combining precision DC voltage and current sourcing with advanced function and arbitrary waveform generation. It delivers 24-bit resolution in high-precision modes, selectable output impedance (0 Ω or 50 Ω), and floating outputs for flexible test configurations. The instrument supports sine, square, triangle, ramp, and arbitrary waveforms across a 0 Hz to 1 MHz frequency range, with 0.001 Hz resolution and 50 ppm accuracy. DC outputs achieve 60 ppm 90-day accuracy, while AC amplitude accuracy reaches 0.35% of output + 0.41% of range. Phase-continuous frequency changes and non-

volatile storage for up to 14 setups enable dynamic signal generation without interruption. GPIB and RS-232 interfaces support remote programming and embedded BASIC-like control routines for standalone operation.

Technical Specifications

DC Voltage Output High-Resolution Mode: 24-bit, ± 1 V / ± 10 V ranges, 60 ppm 90-day accuracy Low-Resolution Mode: 12-bit, 7 ranges, 100 μ s settling time

DC Current Output High-Resolution Mode: 24-bit, 0.1 mA to 100 mA (4 ranges), 60 ppm 90-day accuracy Low-Resolution Mode: 12-bit, 100 μ s settling time

AC Voltage & Current Output Waveforms: Sine, square (variable duty cycle to 100 kHz), triangle, ramp, arbitrary

Frequency Range: 0 Hz to 1 MHz (sine, square, ARB); ramp to 100 kHz

Voltage Range: 1 mV to 100 V peak; **Current Range:** Up to 50 mA peak

Frequency Resolution: 0.001 Hz; **Accuracy:** 50 ppm

Amplitude Accuracy (90-day): 0.35% of output + 0.41% of range

Arbitrary Waveform Generation

Sampling Rate: 4.3 MHz; **Filter:** 1.25 MHz 5-pole low-pass

Array Depth: 2048 bytes; **Repetition Rate:** Full 1 MHz bandwidth

General Performance Output Noise/Ripple (DC): < 50 μ V RMS

Key Features Selectable output impedance (0 Ω or 50 Ω) Floating outputs for differential measurements Phase-continuous on-the-fly frequency tuning

Non-volatile storage: 10 or 14 setup configurations

Embedded math and conditional logic (IF..THEN, FOR..NEXT)

Typical Applications

Precision DC calibration and validation

Arbitrary signal development and characterization

Multi-channel synchronized sourcing (Option 001)

High-voltage test requirements up to ± 100 V DC (Option 002)

Compatibility & Integration GPIB (IEEE-488) and RS-232 interfaces enable host computer control or standalone downloadable subroutines. Optional second output channel supports independent or phase-synchronized operation. Optional high-voltage amplifier (10 $\times$) extends DC to ± 100 V and AC peak-to-peak to 200 V.

3245A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Universal source (DC plus AC/ARB)
Series Family	HP 3245A
Dc Function	precision DC voltage and current
Ac Function	AC and arbitrary waveforms to 1 MHz class
Remote Interface	HP-IB
Channels	single channel standard; dual-channel option listed in 3245A summaries
Dc Voltage Accuracy Class	0.0015 percent-class DC voltage accuracy in OEM product summaries
Isolation	isolated outputs class of 3245A
Form Factor	rack/bench universal source
Application	analog stimulus in ATE
Documentation	HP 3245A universal source operating and specification literature
Waveforms	sine, square, triangle, and arbitrary class
Current Source	DC current function alongside voltage
Synchronization	channel sync on dual-channel option
Amplitude	see 3245A specification table forVandAranges
Frequency	see 3245A specification table for AC span
Power	AC mains operated
Operating Environment	laboratory ambient per 3245A manual
Calibration	3245A specified DC and AC calibration procedures
Successor Class	later Keysight analog stimulus / ARB families
Output Connectors	front-panel precision source outputs
Verification	use the 3245A specification table for warranted DC ppm and AC flatness

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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Notes On Sparse Table: full range/accuracy matrix belongs on the 3245A data sheet	
Notes	
Universal-source identity (DC plus AC/ARB, HP-IB, optional dual channel, 0.0015 percent-class DCV headline)	

from HP 3245A product summaries. Complete range and 1-year accuracy tables are in the 3245A specification chapter.

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.