

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 5326A 50MHz Frequency Counter

The HP 5326A is a universal timer/counter from the 5320-series family providing frequency period time-interval and related timing measurements for laboratory and production use. Frequency and timing characterization of oscillators logic and pulse systems, ratio measurements, and general-purpose benchtop counting. Instrument Family: HP 5326 universal counter series Measurement Functions: Frequency Period Time Interval Ratio Totalize class Frequency and timing characterization of oscillators logic and pulse systems, ratio measurements, and general-purpose benchtop counting. Instrument Family: HP 5326 universal counter series Measurement Functions: Frequency Period Time Interval Ratio Totalize class Frequency Capability Class: to 50 MHz class typical 5326A literature



MODEL

HP / Agilent 5326A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5326A

LISTING

<https://aumictechlabs.com/products/5326a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 5326A is a 50 MHz timer/counter engineered for precision frequency and time interval measurements in electronics testing, calibration, and research environments. This versatile instrument delivers eight core measurement functions: frequency, period, period average, time interval, time interval average, ratio, totalizing, and scaling. It handles both burst and continuous-wave signals with single-shot time interval resolution from 0.1 ns and time interval averaging better than one nanosecond for repetitive signals. Technical Specifications Measurement Capability Maximum frequency: 50 MHz One-shot time interval measurements: 0.1

ns minimum Time interval average resolution: Better than 1 ns (repetitive signals) Periods averaged: 1–10 selectable in decade steps Input Stage Input impedance: 1 M Ω and 50 Ω options Sensitivity: 0.1 V rms sine wave; 0.3 V p-p pulse (8 ns minimum width) Attenuator: 10 $\times$ and 100 $\times$ selectable reduction Dynamic input voltage range: 0.1 to 3 V rms (times attenuator) + 5 V dc (times attenuator) Trigger level: PRESET (center, 0 V) or variable –3 V to +3 V (times attenuator); threshold band < 1.0 mV at maximum frequency Overload protection: 250 V rms all settings; 25 V rms on $\times 1$ above 50 kHz Display and Output 7-digit readout (8-digit optional) Automatic decimal point and unit display with each function Time base output: Negative pulses, +3 V to 0 V (open circuit), ~ 100 ns width; 10 MHz divided by TIME BASE/MULTIPLIER at rear panel BNC Gate output: TTL level pulses at rear panel BNC Gate Time Control FAST position: <100 μ s to ~ 20 ms continuously variable NORM position: <20 ms to ~ 5 seconds continuously variable HOLD position: Indefinite display hold Key Features High-sensitivity 50 Ω input amplifier Dual input impedance for flexible signal coupling Variable trigger threshold with fine threshold control (< 1.0 mV band) Remote programming options (Option 002/004) Temperature-compensated and oven oscillator options available Rack-mountable with standard flanges Operating temperature (rack): ≤ 122 $^{\circ}$ F (50 $^{\circ}$ C) ambient Typical Applications Precision frequency validation, burst signal characterization, time interval analysis, ratio measurements, and repetitive signal averaging in laboratory and production test environments. Compatibility & Integration Rear panel connectors for time base and gate outputs support external integration. Remote programming, digital output, and oscillator options extend measurement automation and environmental stability requirements.

5326A Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	HP 5326 universal counter series
Measurement Functions	Frequency Period Time Interval Ratio Totalize class
Channel Count	2
Frequency Capability Class	to 50 MHz class typical 5326A literature
Input Impedance Class	1 MOhm
Coupling	AC or DC
Sensitivity Class	Millivolt rms class
Attenuator	Selectable
Trigger Slope	Positive or negative
Trigger Level	Adjustable
Display Digits Class	Multi-digit LED
Timebase	Internal crystal
External Arming Class	supported on series
Gate Selection	Manual decade gates
Time Interval Resolution Class	100 ns class single-shot typical era
Averaging	Period and TI average modes class
Form Factor	Benchtop
Power	AC line
Check Function	yes
Intended Use	Lab and production timing
Overload Protection Class	Input protection networks
Marker Outputs Class	Timebase related outputs on series

5326A Specifications

PARAMETER	VALUE
HP Agilent 5326A Universal Timer Counter	Overview
Applications	Frequency and timing characterization of oscillators logic and pulse systems, ratio measurements, and general-purpose benchtop counting.
Universal counter measurement set	Dual channel timing inputs
Technical Specifications	Instrument Family: HP 5326 universal counter series

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	
Specifications	
PARAMETER	VALUE
Instrument Family	HP 5326 universal counter series
Measurement Functions	Frequency Period Time Interval Ratio Totalize class
Channel Count	2
Frequency Capability Class	to 50 MHz class typical 5326A literature
Input Impedance Class	1 MOhm
Coupling	AC or DC
Sensitivity Class	Millivolt rms class
Attenuator	Selectable
Trigger Slope	Positive or negative
Trigger Level	Adjustable
Display Digits Class	Multi-digit LED
Timebase	Internal crystal
External Arming Class	supported on series
Gate Selection	Manual decade gates
Time Interval Resolution Class	100 ns class single-shot typical era
Averaging	Period and TI average modes class
Form Factor	Benchtop
Power	AC line
Check Function	yes
Intended Use	Lab and production timing
Overload Protection Class	Input protection networks
Marker Outputs Class	Timebase related outputs on series
Notes	
Family role and typical 50 MHz-class rating from HP 5326A literature summaries. Verify the exact frequency ceiling on the faceplate/manual for the specific 5326A revision.	

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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