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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 5314A Basic Universal Counter

HP Agilent 5314A 100 MHz Universal Counter The HP 5314A is a compact economical universal counter measuring frequency to 100 MHz with period time-interval and ratio functions for bench service and production. General RF and digital frequency counting to 100 MHz, period and TI measurements on logic and oscillators, and ratio measurements between two channels. Gold standard HP 5314-series service counter The HP 5314A is a compact economical universal counter measuring frequency to 100 MHz with period time-interval and ratio functions for bench service and production. General RF and digital frequency counting to 100 MHz, period and TI measurements on logic and oscillators, and ratio measurements between two channels. Gold standard HP 5314-series service counter Frequency Range Channel B Class: lower frequency companion channel class



MODEL

HP / Agilent 5314A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5314A

LISTING

<https://aumictechlabs.com/products/5314a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 5314A is a basic universal counter engineered for frequency, period, time interval, and ratio measurements across electronics testing, service, and educational laboratories. With a 7-digit LED display and measurement capability to 100 MHz, it delivers reliable performance through selectable triggering controls, adjustable slope and trigger level, and front-panel simplicity suited to both field technicians and training environments. Technical Specifications Measurement Functions Frequency (10 Hz to 10 MHz direct; 1 MHz to 100 MHz prescaled by 10)

Single-shot and averaged period (10 Hz to 2.5 MHz) Time interval (250 ns to 1 second) Frequency ratio A to B Totalize Self-check Frequency Measurement Resolution down to $\pm$ LSD with accuracy of $\pm$ LSD $\pm$ (time base error) $\times$ Frequency. Selectable least significant digits: 0.1 Hz, 1 Hz, or 10 Hz in direct count mode; 10 Hz, 100 Hz, or 1 kHz in prescaled mode. Period & Time Interval Period measurements from 10 Hz to 2.5 MHz with 100 ns LSD. Time interval measurements spanning 250 ns to 1 second with 100 ns resolution. Both support decade-step averaging from N=1 to 1000. Input Specifications AC coupling through 1 M Ω nominal impedance (shunted <30 pF). Channel A sensitivity: 25 mV rms to 100 MHz; 75 mV peak-to-peak minimum at 5 ns pulse width. Channel B sensitivity: 25 mV rms to 2.5 MHz; 75 mV peak-to-peak at 200 ns minimum pulse width. Dynamic range: 75 mV to 4 V peak-to-peak. Selectable X1 or X20 attenuator on Channel A. Trigger level continuously variable $\pm$ 350 mV (multiplied by attenuator setting) with independent slope selection (positive or negative). Time Base 10 MHz frequency with aging rate <3 parts per 10⁶ per month. Temperature stability $\pm$ 10 parts per 10⁶ over 0 to 50 °C. Key Features 7-digit LED display with overflow indication Separate or common channel input selectable Ratio measurement to 1 part in 10ⁿ resolution Intuitive front-panel controls requiring minimal training Typical Applications Frequency verification, period analysis, timing characterization, signal ratio comparison, component testing, and educational demonstrations in electronics laboratories.

5314A Characteristics / Specifications

PARAMETER	VALUE
Frequency Range Channel A	to 100 MHz
Frequency Range Channel B Class	lower frequency companion channel class
Period Function	yes
Time Interval Function	yes
Ratio Function	yes
Display Digits Class	7 digit class typical 5314A
Sensitivity Class	25 mV rms class typical literature
Input Impedance	1 MOhm class
Coupling	AC or DC
Attenuator	X1 X10 class
Trigger Level	Adjustable
Timebase	Crystal oscillator
External Timebase Input Class	available on family
Form Factor	Compact benchtop
Intended Use	Service and production counting
Gate Times	Selectable decade gates
Check Mode	Self check
Channel Configuration	A and B inputs
Maximum Input Class	Protected to stated rms limits in manual
Resolution Frequency	Gate-time dependent
Resolution Time Interval Class	100 ns class typical economy counters
Power	AC line
Operating Temperature Class	0 to 50 C class laboratory
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5314A Specifications

PARAMETER	VALUE
HP Agilent 5314A 100 MHz Universal Counter	Overview
Key Features	100 MHz frequency range
Trigger level and attenuator controls	Gold standard HP 5314-series service counter
Technical Specifications	Frequency Range Channel A: to 100 MHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 50 C class laboratory
Operating Temperature	Class: 0 to 50 C class laboratory
Operating Temperature Class	0 to 50 C class laboratory Notes 100 MHz rating and function set from HP 5314A product literature. Use the operating manual for exact sensitivity overload and timebase aging figures.

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

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

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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.