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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 5363B Time Interval Probes

The HP 5363B provides two high-impedance, low-capacitance time-domain probes for digital measurement of rise times and propagation delays with a counter's start and stop channels. OEM operating manuals specify 350 MHz effective bandwidth, trigger levels from -9.99 V to $+9.99\text{ V}$ in 10 mV steps, and HP-IB programmability of functions and levels. Used with electronic counters in time-interval mode to measure rise/fall times and propagation delays on digital circuits while minimizing probe loading, and for calibrated delay measurements with adjustable compensation around 0 or 10 ns. Remote control: HPIB (all functions and levels except delay adjust) Power: 100/120/220/240 Vac $\pm 5\%$ / -10% , 48 to 440 Hz Supplementary capacitance note: less than 15 pF class in some OEM summaries Specifications are from the HP 5363B Time Interval Probes Operating and Service Manual. Use with a compatible electronic counter start/stop time-interval input path.



MODEL

HP / Agilent 5363B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5363B

LISTING

<https://aumictechlabs.com/products/5363b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 5363B Time Interval Probes are precision measurement instruments designed for use with compatible time interval counters to capture accurate, repeatable time-domain measurements. Each probe assembly contains two channels capable of independent or paired operation as start and stop signal sources, enabling rise time measurements, propagation delay characterization, slew rate analysis, and phase jitter quantification with calibrated accuracy better

than 1 ns. Technical Specifications Measurement Performance Calibrated accuracy: <1 ns for rise time and propagation delay Effective bandwidth: 350 MHz (corresponding to approximately 1 ns rise time) Operating voltage range: ± 10 V Trigger level adjustment: 10 mV steps from -9.99 V to +9.99 V Trigger edge selection: positive or negative slope Minimum pulse width: 5 ns at ± 100 mV Input signal hysteresis requirement: 100 mV below and above trigger point for minimum 3 ns duration Maximum input voltage (damage level): 30 V Probe Input Characteristics Input impedance: 1 M Ω shunted by <15 pF Input capacitance: <15 pF Power Requirements Supply voltage: 100 V, 120 V, 220 V, or 240 V $\pm 5\%$ to -10%, 48–440 Hz Maximum power consumption: 30 VA Key Features Four measurement channels (two per probe) supporting independent or shared start/stop configurations Programmable trigger levels, slope, and polarity via HP-IB interface Rear-panel 50 Ω output connectors for start and stop signals Interchangeable probe tips for compatibility with Hewlett-Packard and Tektronix RF hardware Full remote programming capability with Option 011 International safety compliance design Typical Applications Rise time and fall time characterization of digital and analog signals Propagation delay measurement across circuit elements Slew rate quantification in precision analog circuits Phase jitter and timing stability analysis in oscillator and clock circuits Time interval measurements between arbitrary signal events Compatibility & Integration The probes interface with compatible precision time interval counters through rear-panel connections. HP-IB programming enables remote configuration of all measurement parameters except delay adjustment, supporting integration into automated test systems and data acquisition workflows.

5363B Characteristics / Specifications

PARAMETER	VALUE
Effective bandwidth	350 MHz or 1 ns rise time
Input impedance	1 M Ω shunted by less than 20 pF
Voltage resolution	10 mV
Trigger level range	–9.99 V to +9.99 V
Delay compensation range	2 ns adjustable about 0.0 or 10.0 ns
Calibration accuracy class	calibrated to less than 1 ns
START STOP output levels into 50 ohm	–0.5 V to +0.5 V
Output slew rate through zero	exceeds 0.50 V/ns
Trigger level output accuracy	trigger point setting ± 75 mV
Number of probes	2
Channels per probe	2
Total measurement channels	4
Trigger slope	positive or negative selectable
Remote control	HPIB (all functions and levels except delay adjust)
Power	100/120/220/240 Vac +5%/–10%, 48 to 440 Hz
Power consumption	40 VA max
Net weight	3.0 kg
Shipping weight	5.5 kg
Supplementary capacitance note	less than 15 pF class in some OEM summaries
Probe count	2
Channels total	4
Trigger step size	10 mV
Bandwidth	350 MHz
Power VA maximum	40 VA
Line frequency range	48 to 440 Hz

PARAMETER	VALUE
Rise Time	Input impedance: 1 M Ω shunted by less than 20 pF

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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Voltage resolution	10 mV
Trigger level range	−9.99 V to +9.99 V
Delay compensation range	2 ns adjustable about 0.0 or 10.0 ns
Calibration accuracy class	calibrated to less than 1 ns
START STOP output levels into 50 ohm	−0.5 V to +0.5 V
Output slew rate through zero	exceeds 0.50 V/ns
Trigger level output accuracy	trigger point setting ±75 mV
Number of probes	2
Channels per probe	2
Total measurement channels	4
Trigger slope	positive or negative selectable
Remote control	HP-IB (all functions and levels except delay adjust)
Power	100/120/220/240 Vac +5%/−10%, 48 to 440 Hz
Power consumption	40 VA max
Net weight	3.0 kg
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Notes

Specifications are from the HP 5363B Time Interval Probes Operating and Service Manual. Use with a compatible electronic counter start/stop time-interval input path.

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.