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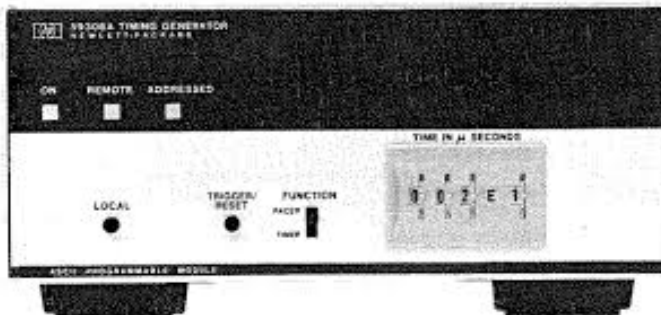
Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 59308A TIMING GENERATOR

The HP/Agilent 59308A is a timing / pulse generator instrument in the HP 593xx modular and benchtop timing family used to produce precise timing edges and gates for automated test systems. OEM catalog descriptions position it for system timing, trigger distribution, and gated measurement control via HP-IB. ATE timing and gating, trigger distribution in HP-IB systems, and laboratory pulse/timing generation. Primary Function: Precision timing edges and gates Output Types Class: Timing pulse and gate outputs class Weight Class: Benchtop/system module weight class Related Family: HP 593xx timing and switching Manufacturer Brand Path: HP Agilent Keysight legacy From HP/Agilent 59308A timing generator catalog and system documentation. Confirm exact pulse width and period limits on the unit operating manual.



MODEL

**HP / Agilent
59308A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

59308A

LISTING

<https://aumictechlabs.com/products/59308a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 59308A Timing Generator produces precise timing signals and synchronization pulses for measurement systems requiring accurate temporal control. Operating in Timer or Pacer mode, it generates single pulses or pulse trains synchronized to external trigger events. Timing configuration is available via front-panel thumbwheel switches or remote HP Interface Bus (HP-IB) control, making it suitable for digital communication testing, protocol analysis, and coordinated instrument synchronization. The instrument can report pulse counts via HP-IB and supports Bus

Pacer mode operation in controller-less systems. Technical Specifications Timing Modes Timer Mode: Single timing pulse at specified interval post-trigger Pacer Mode: Pulse train with specified period following trigger event Pulse Output Pulse width: 500 ns $\pm$ 100 ns Rise time: 50 ns Minimum interval (Timer Mode): 1 microsecond Output levels: TTL and ECL (rear panel BNC outputs) Waveform selection: Square wave or pulse Edge selection: Positive-going or negative-going Triggering Input: Rear panel connector Edge sensitivity: Positive or negative-going Threshold: Selectable at 1 V or 4 V Reset: Front panel button Internal Power Supply +12 V regulator output +5 V regulator output +5.2 V regulator output -12 V regulator output Key Features Dual-mode timing generation for diverse synchronization requirements Front-panel and remote control via HP-IB Programmable trigger threshold and edge selection 8-character serial output reporting pulse count since last trigger Bus Pacer mode for autonomous timing interval management Configurable output signal levels and waveform types Typical Applications Digital communication system testing Protocol analysis and validation Precision instrument synchronization Timing pulse generation in automated test systems Compatibility & Integration Designed for HP-IB system integration with rear panel BNC connectors for trigger input and signal outputs. Compatible with 10631A accessories.

59308A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Timing generator
Primary Function	Precision timing edges and gates
Remote Interface	HP IB
Series Family	HP 59308A
Form Factor	Timing generator instrument
Output Types Class	Timing pulse and gate outputs class
Trigger Capability Class	External trigger input class
Operating Temperature Class	Laboratory ambient class
Primary Power Class	AC mains
Warmup Class	Per operating manual
Calibration Interval Class	One year class
Timing Resolution Class	High resolution system timing class
Jitter Class	Low jitter timing outputs class
Logic Levels Class	TTL compatible class
Connector Type Class	BNC timing connectors class
Rack Mount Class	System compatible form class
Export Classification Class	Commercial timing instrument class
Weight Class	Benchtop/system module weight class
Status Reporting	HP IB status class
Use Case	Automated test timing
Related Family	HP 593xx timing and switching
Manufacturer Brand Path	HP Agilent Keysight legacy
Operating temperature	Class: Laboratory ambient class

59308A Specifications

PARAMETER	VALUE
HP Agilent 59308A Timing Generator	Overview
Applications	ATE timing and gating, trigger distribution in HP-IB systems, and laboratory pulse/timing generation.
Key Features	Precision timing generation
Trigger and gate outputs class	Rack or bench timing source
Technical Specifications	Instrument Type: Timing generator

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Laboratory ambient class
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Status Reporting	HP IB status class
Use Case	Automated test timing
Related Family	HP 593xx timing and switching
Manufacturer Brand Path	HP Agilent Keysight legacy Notes From HP/Agilent 59308A timing generator catalog and system documentation. Confirm exact pulse width and period limits on the unit operating manual.

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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Instrument Type	Timing generator
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Notes	
From HP/Agilent 59308A timing generator catalog and system documentation. Confirm exact pulse width and period limits on the unit operating manual.	

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.