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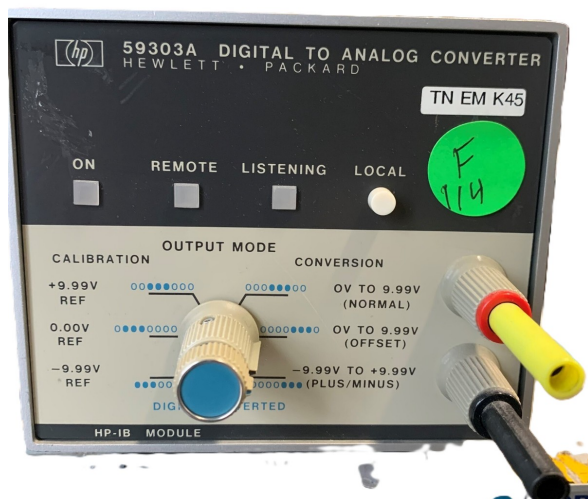
Data Sheet

August 13, 2026

AGILENT

Agilent 59303A Digital to Analog Converter 48-440Hz 22VA

HP / Agilent 59303A Digital to Analog Converter The Hewlett-Packard 59303A is an HP-IB (IEEE-488) digital-to-analog converter from the early 59xxx HP-IB peripheral family. It accepts a serial ASCII digit string, stores up to 15 digits, and on the line-feed character converts any three consecutive selected digits into a corresponding analog voltage. HP Journal (January 1975) describes it as a bus listener used to drive strip-chart recorders, X-Y plotters, programmable trigger levels, and analog-controlled sweepers or VCOs without a microprocessor; the instrument is built from SSI TTL logic. The Hewlett-Packard 59303A is an HP-IB (IEEE-488) digital-to-analog converter from the early 59xxx HP-IB peripheral family. It accepts a serial ASCII digit string, stores up to 15 digits, and on the line-feed character converts any three consecutive selected digits into a corresponding analog voltage. HP Journal (January 1975) describes it as a bus listener used to drive strip-chart recorders, X-Y plotters, programmable trigger levels, and analog-controlled sweepers or VCOs without a microprocessor; the instrument is built from SSI TTL logic. Conversion of counter or DVM HP-IB talker output to analog for recorders and plotters; programmable voltage source for device test; programming of analog-controlled sweepers and VCOs; calculator-closed-loop VCO frequency control; listen-only conversion of any bus-compa



MODEL

Agilent 59303A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

59303A

LISTING

<https://aumictechlabs.com/products/59303a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent 59303A is a digital-to-analog converter that translates serial ASCII-coded digital data into analog voltage output. Operating across 48–440 Hz, this 22 VA module accepts up to 15 ASCII-coded digits serially and generates an analog voltage equivalent to three consecutive selected digits upon receipt of a line-feed character, with output spanning –10 V. Engineered for direct integration into measurement and control systems, the 59303A bridges digital instrumentation and analog devices without external processing overhead.

Technical Specifications
Frequency Range: 48–440 Hz
Power Consumption: 22 VA
Digital Input: Serial ASCII-coded data, up to 15 digits maximum
Analog Output: –10 V range (three-digit selection from input string)
Input Signal Type: Digital (ASCII-coded)
Output Signal Type: Analog Voltage

Key Features
Serial input interface for direct connection to digital sources
Three-digit digit-selection capability for flexible scaling
Line-feed triggered conversion ensures deterministic output timing
Compact integration footprint for OEM control system deployment
Direct compatibility with standard measurement instrument outputs

Typical Applications
Driving strip-chart recorders from counter or DVM digital outputs
Analog signal generation from digital measurement systems
Signal conditioning in automated test environments
System integration requiring D/A conversion with serial input architecture

Compatibility & Integration
The 59303A interfaces with digital counters and Digital Voltmeters (DVMs) via serial ASCII protocol. Its compact design supports board-level and chassis integration into instrumentation racks and process control systems requiring real-time analog representation of digital measurement data.

59303A Characteristics / Specifications

PARAMETER	VALUE
Three selectable output formats	bipolar, unipolar (sign ignored), and offset (zero input equals midscale) Front-panel OUTPUT MODE switch including a 0.00 V REF position for calibration Front-panel On, Remote, Listening, and Local lamps; 5-way binding-post analog output
Model	59303A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	HP-IB digital to analog converter
Alias	HP 59303A; Agilent 59303A; Keysight 59303A
Output Voltage Bipolar	-9.99 V to +9.99 V
Output Voltage Unipolar	0 V to +9.99 V (sign of input data ignored)
Output Voltage Offset Mode	0 V to +9.99 V; zero digital input produces 5.00 V
Full Scale Accuracy	0.1 percent of full scale
Full Scale Accuracy Absolute	plus/minus 10 mV
Output Current Capability	source or sink 10 mA
Digit String Length	up to 15 ASCII-coded digits stored serially
Converted Digits	any three consecutive digits selected from the received string
Conversion Trigger	line-feed character
Interface	HP-IB (IEEE-488)
Listen Only Mode	rear-panel switch; responds to all bus inputs without a controller
Addressable Mode	responds only when addressed by the system controller
Output Connector	front-panel 5-way binding posts
Front Panel Indicators	On, Remote, Listening, Local
Output Mode Switch	includes 0.00 V REF for calibration
Positive Full Scale Calibration	+9.99 plus/minus 0.01 V (service manual R46)
Negative Full Scale Calibration	-9.99 plus/minus 0.01 V (service manual R45)
Zero Calibration	plus/minus 0.00 plus/minus 0.01 V (service manual R40 / R42)
Calibration DMM Requirement	better than 0.1 percent accuracy

PARAMETER	VALUE
Product Family	HP 59xxx HP-IB peripherals (introduced about 1973/74)
Construction	SSI TTL logic (no microprocessor)
Listing Weight	about 7 lb class (reseller shipping listing)
Series Context	companion 59xxx units include 59301A, 59304A, 59306A, 59307A Notes Specs from HP Journal January 1975 (59303A article) and the HP 59303A service-manual calibration procedure. Do not use third- party 12-bit / 100 kHz listings; those do not match HP documentation. Confirm HP-IB address, listen-only switch, and output-mode setting on the unit.

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.

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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.