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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 3437A

The Agilent / HP 3437A is a high-speed system digital voltmeter designed for automated DC and AC voltage measurements over HP-IB. Period HP 3437A documentation highlights microsecond-class reading rates for ATE systems needing fast voltage capture. Automated production test voltage measurement, high-speed DC monitoring, and HP-IB system voltmeter roles in 1970s-1980s ATE racks. Reading Rate Class: high speed system voltmeter Storage Temperature Class: minus 40 C to 75 C Storage Temperature Class: minus 40 C to 75 C Line Power: 100/120/220/240 V 48 to 440 Hz class Accuracy Class: system DVM accuracy class Identity from Agilent/Keysight 3437A listings. Exact voltage ranges reading rate and accuracy tables are in the HP 3437A operating and service manual.



MODEL

**Agilent / Keysight
3437A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3437A

LISTING

<https://aumictechlabs.com/products/3437a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 3437A is a microprocessor-controlled system voltmeter designed for automated testing and high-speed data acquisition. This 3½ digit instrument samples voltages at rates up to 5700 samples per second with three selectable ranges (0.1 V, 1 V, and 10 V full scale), each supporting 100% overrange. Chassis-isolated input terminals enable floating measurements up to ± 20 V, while wideband input amplification, auto-zero, auto-polarity, and sample-and-hold functionality ensure accurate instantaneous readings across DC to 1.0 MHz. Technical Specifications Measurement Performance Resolution: 3½ digit display Voltage ranges: 0.1 V, 1 V,

10 V full scale with 100% overrange on all ranges Sampling rate: Up to 5700 samples per second (packed data format) Floating measurement capability: ± 20 V (chassis isolated) Frequency range: DC to 1.0 MHz Input impedance: $1\text{ M}\Omega$ (10 V range); $>10^8\ \Omega$ (1 V and 0.1 V ranges); all 50 ms) Key Features HP-IB (Hewlett-Packard Interface Bus) control - all front panel functions programmable Dual data output formats: ASCII (8 byte) or Packed (2 byte) Binary program mode for abbreviated code entry Sample-and-hold for instantaneous voltage capture Wideband input amplifier with auto-zero and auto-polarity Typical Applications Automated high-speed voltage measurement and logging Burst sampling and transient analysis Precision DC and waveform monitoring up to 1.0 MHz System integration via HP-IB instrumentation control Compatibility & Integration HP-IB interface provides direct integration into automated test systems and data acquisition setups. Programmable triggering and selectable data formats support flexible test sequences and real-time system communication.

3437A Characteristics / Specifications

PARAMETER	VALUE
Model	3437A
Instrument Type	system voltmeter
Manufacturer	HP Agilent Keysight
Interface	HP-IB IEEE-488
Measurement	DC and AC voltage class
Form Factor	system DVM chassis
Reading Rate Class	high speed system voltmeter
Display	numeric voltage display
Operating Temperature Class	0 C to 55 C
Storage Temperature Class	minus 40 C to 75 C
Line Power	100/120/220/240 V 48 to 440 Hz class
Humidity Class	non condensing
Input Impedance Class	highZDC
Ranges	autoranging voltage ranges class
Accuracy Class	system DVM accuracy class
Trigger	external and HP-IB trigger
Math	system math functions class
Duty	continuous ATE
Grounding	guarded input class
Cooling	forced air
Mass Class	half rack instrument
Calibration	periodic DVM cal
Safety	CAT rating per era manual
Remote	full HP-IB control
Front Panel	local controls

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 75 C
Operating temperature	Class: 0 C to 55 C
Humidity	Class: non condensing

3437A Specifications

PARAMETER	VALUE
Agilent HP 3437A System Voltmeter	Overview
Applications	Automated production test voltage measurement, high-speed DC monitoring, and HP-IB system voltmeter roles in 1970s-1980s ATE racks.
Technical Specifications	Model: 3437A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 75 C
Operating temperature	Class: 0 C to 55 C
Operating Temperature	Class: 0 C to 55 C
Humidity	Class: non condensing
Operating Temperature Class	0 C to 55 C
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Safety	CAT rating per era manual
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Front Panel	local controls Notes Identity from Agilent/Keysight 3437A listings. Exact voltage ranges reading rate and accuracy tables are in the HP 3437A operating and service 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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Notes

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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

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NIST-traceable calibration · SAM registered ·
30-day returns
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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.