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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 3438A

Agilent Keysight 3438A 3.5 Digit Digital Multimeter The HP 3438A is a 3.5-digit systems/bench digital multimeter in HP's 343x DMM family. OEM 3438A literature lists 3.5-digit DC voltage, AC voltage, and resistance with HP-IB systems interface typical of late-1970s HP DMMs, autoranging, and five-function class measurements. Production-test and education bench DCV/ACV/ohms where 3.5 digits and HP-IB are sufficient. Series Family: HP 3435A/3436A/3438A 3.5-digit DMM class The HP 3438A is a 3.5-digit systems/bench digital multimeter in HP's 343x DMM family. OEM 3438A literature lists 3.5-digit DC voltage, AC voltage, and resistance with HP-IB systems interface typical of late-1970s HP DMMs, autoranging, and five-function class measurements. Production-test and education bench DCV/ACV/ohms where 3.5 digits and HP-IB are sufficient. Series Family: HP 3435A/3436A/3438A 3.5-digit DMM class Functions Class: DCV, ACV, resistance (plus current on five-function listings)



MODEL

**Agilent / Keysight
3438A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3438A

LISTING

<https://aumictechlabs.com/products/3438a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 3438A is a 3.5-digit digital multimeter delivering five measurement functions for bench and system-level electronic testing. This autoranging instrument measures AC and DC voltage, AC and DC current, and resistance with a bright 7-segment red LED display. The 3438A integrates HP-IB (GPIB) control for remote operation in automated test configurations, supporting

both addressable and talk-only modes.

Technical Specifications

Measurement Functions DC and AC voltage DC and AC current Resistance (ohms) Display & Conversion 7-segment red LED, 0.3 inch high, with function and range annunciation Dual-slope analog-to-digital conversion 100 msec integration time

Input Specifications Maximum input: 1200 V (DC + peak AC) Input resistance: $10\text{ M}\Omega \pm 1\%$ Shunt capacitance: $< 50\text{ pF}$ Floating input, 500 V maximum common-mode to ground Sensitivity: 100 μV on the 200 mV range

Performance Characteristics Automatic polarity sensing and display Normal mode rejection: 40 dB at 50 Hz and 60 Hz $\pm 1\text{ Hz}$ Response time: < 0.7 seconds to 1-digit accuracy on single range; add 1 second per range change Reading rate: 2.4–4.7 readings/second depending on input level

Ranging Modes Automatic or manual for AC voltage, DC voltage, and ohms Manual only for AC and DC current

Environmental & Power Operating temperature: 0°C to 55°C Storage temperature: -40°C to $+76^{\circ}\text{C}$ Humidity: 0–95% RH at 40°C AC line power; standard rack mount case (rack kit not included)

Key Features HP-IB/GPIB interface for integration into automated test systems Addressable and talk-only communication modes Autoranging on voltage and resistance measurements Manual function and range selection when required

Typical Applications Laboratory bench testing and troubleshooting Automated test equipment (ATE) systems Process monitoring and quality control Field service and maintenance

Compatibility & Integration The 3438A connects directly to GPIB-based test systems and can operate as a standalone instrument or as part of a larger measurement network. Both addressable and talk-only modes enable flexible system configuration and legacy equipment compatibility.

3438A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Digital multimeter
Series Family	HP 3435A/3436A/3438A 3.5-digit DMM class
Display Digits	3.5
Functions Class	DCV, ACV, resistance (plus current on five-function listings)
Remote Interface	HP-IB
Ranging	autoranging class
Form Factor	rack/bench DMM
Display	numeric LED/gas-discharge class of 343x
Application	production and education DMM
Documentation	HP 3438A digital multimeter operating and service manual
Dc Voltage	see 3438A specification table for ranges and percent accuracy
Ac Voltage	see 3438A specification table
Resistance	see 3438A specification table
Current	see 3438A specification table if current function is fitted
Input Resistance Dcv	see 3438A specification table
Maximum Input	see 3438A specification table
Power	AC mains operated
Operating Environment	laboratory ambient per 3438A manual
Calibration	closed-case or specified 3438A procedure
Successor Class	3468A/3478A 5.5-digit HP-IL/HP-IB DMMs
Systems Use	HP-IB talk/listen class
Verification	do not invent 0.05 percent-class figures; use the 3438A table

3438A Specifications

PARAMETER	VALUE
Agilent Keysight 3438A 3.5 Digit Digital Multimeter	Overview
Applications	Production-test and education bench DCV/ACV/ohms where 3.5 digits and HP-IB are sufficient.
Key Features	3.5-digit display
Technical Specifications	Instrument Type: Digital multimeter

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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PARAMETER	VALUE
Instrument Type	Digital multimeter
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Notes On Sparse Table: full range-by-range accuracy belongs on the 3438A data sheet	
Notes	
3.5-digit HP-IB DMM identity from HP 3438A product literature. Range and accuracy numbers were not taken from a complete OEM numeric table here; they must come from the 3438A specification chapter.	

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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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.