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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 3455A 5 or 6-Digit Digital Multimeter/Voltmeter

The HP 3455A is a microprocessor-based systems digital voltmeter measuring DC volts AC volts and ohms with 5.5-digit speed or 6.5-digit high-resolution DC/ohms modes. Auto-Cal and HP-IB make it suited to automated precision DC metrology. Precision DC voltage and resistance systems measurements, true-rms AC to 1 MHz, and thermocouple processing via programmed math. 5.5 digit fast or 6.5 digit high resolution DC 24 DC readings per second programmed at 5.5 digits Operating Temperature Class: laboratory systems environment Guard Capability: yes systems DVM architecture Sample Modes: Fast and high resolution selectable Specs from HP 3455A Digital Voltmeter literature and HP Journal summary. Use the full accuracy matrix in the manual for range-by-range limits.



MODEL

HP / Agilent 3455A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3455A

LISTING

<https://aumictechlabs.com/products/3455a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 3455A is a microprocessor-controlled digital multimeter delivering 5.5 or 6.5-digit resolution for benchtop and systems measurement applications. It measures DC voltage, AC voltage, and resistance with exceptional accuracy and noise rejection, making it ideal for precision laboratory and industrial work. The instrument features fully guarded circuitry, internal auto-calibration, and dual-mode resolution for measurements approaching 1 part per million in DC and

resistance. Technical Specifications Measurement Functions & Ranges DC Voltage: 0.1 V to 1000 V with 1 μ V sensitivity AC Voltage: 1 V to 1000 V (standard True RMS, 30 Hz to 1 MHz); optional Average Converter supports 30 Hz to 250 kHz Resistance: 0.1 k Ω to 10 M Ω in six ranges, 2-wire and 4-wire modes Resolution & Display 5.5 or 6.5-digit digital display High-resolution mode enables DC and resistance measurements exceeding 1 ppm accuracy Reading Rates DC ranges: up to 24 readings/s Resistance: up to 12 readings/s AC Fast Mode: up to 13 readings/s (frequencies above 300 Hz) Remote operation supports variable rates including 24, 22, 6, and 5 rdg/s depending on configuration Accuracy (90-day, 23°C $\pm$ 5°C) DC Voltage - 1 V range: $\pm$ (0.006% + 3 to 4 counts); 10 V: $\pm$ (0.005% + 3 counts); 100/1000 V: $\pm$ (0.007% + 3 counts) Resistance (4-wire) - 1 k Ω : $\pm$ (0.0035% + 5 counts); 10 k Ω : $\pm$ (0.0060% + 5 counts); 100 k Ω : $\pm$ (0.0035% + 6 counts); 1000 k Ω : $\pm$ (0.0135% + 5 counts); 10,000 k Ω : $\pm$ (0.1000% + 5 counts) AC Voltage - 30 Hz to 20 kHz: $\pm$ (0.05% + 50 counts); 20 kHz to 100 kHz: $\pm$ (0.5% + 100 counts) Temperature Coefficient (10 V DC): $\pm$ (0.002% + 0.05 counts)/°C Noise Rejection DC ranges: greater than 60 dB normal mode rejection AC voltage: greater than 140 dB normal mode rejection Key Features Auto Calibration (Auto Cal) digitally corrects DC voltage and resistance circuits against internal references True RMS AC converter handles sinusoidal and complex signals with crest factors to 7:1 at full scale Fully guarded circuit design minimizes measurement errors in noisy environments Math functions included Typical Applications Precision DC and AC measurements in research labs, production testing, and systems integration where sub-ppm accuracy and high noise rejection are required. Compatibility & Integration Remote operation capable with configurable reading rates for automated test systems and data acquisition setups.

3455A Characteristics / Specifications

PARAMETER	VALUE
DC Voltage Ranges	0.1 V 1 V 10 V 100 V 1000 V
DC Resolution High Res	6.5 digits except 0.1 V and some ohms ranges
DC Resolution Fast	5.5 digits
DC Best Accuracy 10 V 24 h	plus or minus (0.002 percent of reading plus 3 digits) Auto Cal ON at 23 plus or minus 1 C
DC Reading Rate Programmed 5.5 Digit	24 readings per second
Normal Mode Rejection 60 Hz	60 dB
Common Mode Rejection 60 Hz	160 dB
AC Converter	true rms 30 Hz to 1 MHz
AC Crest Factor	7:1
AC Plus DC Capability	yes
AC Reading Rate Normal	1.3 per second
AC Reading Rate Fast Mode	13 per second above 300 Hz
Resistance Function	yes
Basic DC and Ohms Accuracy Class	0.005 percent
Remote Interface	HP-IB
Auto Cal	yes
Math Processing	yes
Form Factor	Benchtop systems DVM
Operating Temperature Class	laboratory systems environment
Guard Capability	yes systems DVM architecture
Sample Modes	Fast and high resolution selectable
Bandwidth	30 Hz to 250 kHz
Operating temperature	Class: laboratory systems environment

3455A Specifications

PARAMETER	VALUE
HP Agilent 3455A Digital Voltmeter	Overview
Applications	Precision DC voltage and resistance systems measurements, true-rms AC to 1 MHz, and thermocouple processing via programmed math.
Auto Cal reduces gain and offset errors	5.5 digit fast or 6.5 digit high resolution DC
True rms AC converter 30 Hz to 1 MHz	24 DC readings per second programmed at 5.5 digits
Technical Specifications	DC Voltage Ranges: 0.1 V 1 V 10 V 100 V 1000 V

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory systems environment
Operating Temperature	Class: laboratory systems environment
Operating Temperature Class	laboratory systems environment
Guard Capability	yes systems DVM architecture
Sample Modes	Fast and high resolution selectable Notes Specs from HP 3455A Digital Voltmeter literature and HP Journal summary. Use the full accuracy matrix in the manual for range-by-range limits.

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	
Specifications	
PARAMETER	VALUE
DC Voltage Ranges	0.1 V 1 V 10 V 100 V 1000 V
DC Resolution High Res	6.5 digits except 0.1 V and some ohms ranges
DC Resolution Fast	5.5 digits
DC Best Accuracy 10 V 24 h	plus or minus (0.002 percent of reading plus 3 digits) Auto Cal ON at 23 plus or minus 1 C
DC Reading Rate Programmed 5.5 Digit	24 readings per second
Normal Mode Rejection 60 Hz	60 dB
Common Mode Rejection 60 Hz	160 dB
AC Converter	true rms 30 Hz to 1 MHz
AC Crest Factor	7:1
AC Plus DC Capability	yes
AC Reading Rate Normal	1.3 per second
AC Reading Rate Fast Mode	13 per second above 300 Hz
Optional Averaging AC Bandwidth: 30 Hz to 250 kHz	
Specifications	
PARAMETER	VALUE
Resistance Function	yes
Basic DC and Ohms Accuracy Class	0.005 percent
Remote Interface	HP-IB
Auto Cal	yes
Math Processing	yes
Form Factor	Benchtop systems DVM
Operating Temperature Class	laboratory systems environment
Guard Capability	yes systems DVM architecture
Sample Modes	Fast and high resolution selectable

Notes

Specs from HP 3455A Digital Voltmeter literature and HP Journal summary. Use the full accuracy matrix in the manual for range-by-range limits.

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 ·
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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.