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Data Sheet

August 13, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1312A 6.5-Digit DMM, High Accuracy

Keysight E1312A VXI 6.5 Digit Digital Multimeter The Keysight (HP) E1312A isaVXI B-size 2-slot message-based 6.5-digit digital multimeter for industrial automation. Multi-slope III A/D conversion provides DCV, DCI, AC true-RMS, and resistance measurements with selectable integration time, fast VXI triggering, and 300 V input protection. The Keysight (HP) E1312A isaVXI B-size 2-slot message-based 6.5-digit digital multimeter for industrial automation. Multi-slope III A/D conversion provides DCV, DCI, AC true-RMS, and resistance measurements with selectable integration time, fast VXI triggering, and 300 V input protection.



MODEL

**Agilent / Keysight
E1312A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1312A

LISTING

<https://aumictechlabs.com/products/e1312a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E1312A is a 6.5-digit DMM housed as a B-size, 2-slot VXI module for high-precision measurement applications. Operating as a VXIbus message-based slave device, it delivers selectable resolution from 4.5 digits for speed to 6.5 digits for maximum accuracy. Its electrical design mirrors the C-size E1412A, differing only in physical form factor. Technical Specifications Resolution & Performance Selectable resolution: 4.5 digits to 6.5 digits Speed: Up to 65 range changes per second and 30 function changes per second (DC voltage measurement) Measurement Functions DC Voltage AC Voltage DC Current AC Current Resistance (2-wire and 4-

wire) Frequency Period Limit checks with TTL output DC voltage ratios Accuracy (Referenced to Electrically Identical E1412A) DC Voltage (10 V range): $\pm 0.0015\%$ of reading + 0.0004% of range at 24-hour accuracy ($23^{\circ}\text{C} \pm 1^{\circ}\text{C}$) AC Voltage (100 V range, Slow filter, sinewave, 1-hour warm-up): $\pm 0.03\%$ of reading + 0.01% of range Temperature coefficient: $0.0005 + 0.0001$ for DC voltage on 10 V range ($23^{\circ}\text{C} \pm 5^{\circ}\text{C}$, 90-day spec) Module Configuration Form factor: VXIbus B-size, 2-slot module Interface: VXIbus message-based Programming: HP-IB (IEEE 488) via command module or embedded controller

Key Features Flexible resolution selection optimizes measurement speed versus accuracy for diverse test scenarios. Dual-interface capability VXIbus and HP-IB - enables integration into legacy and modern test systems. The compact B-size format conserves chassis space while maintaining electrical performance parity with larger C-size instruments.

Typical Applications Precision data acquisition in modular test systems, automated electrical characterization, and high-accuracy DC/AC measurements requiring integration within VXI instrument racks.

Compatibility & Integration Native VXIbus operation supports message-based communication in VXI chassis environments. HP-IB programming interface enables control via external command modules, facilitating system integration with instruments from the Agilent/Keysight measurement ecosystem.

Features & description

From manufacturer datasheet

Features

- 6.5 digit resolution at 100 PLC integration
- DC voltage to 300 V with 300 V input protection
- DC current to 3 A with front-panel fuse access
- True RMS AC voltage with 3 Hz to 300 kHz filters
- Function change 30 per second range change 65 per second
- Maximum trigger rate 1000 per second

Applications

- Automated test DC and AC precision measurements
- Production DMM in VXI-based ATE systems
- High-speed scanning with external trigger
- True RMS AC measurements to 300 kHz bandwidth

E1312A Characteristics / Specifications

PARAMETER	VALUE
Model	E1312A
Manufacturer	Keysight / Agilent / Hewlett Packard
Instrument Type	VXI Digital Multimeter
Alias	E1312A; HP E1312A; Keysight E1312A
Resolution	6.5 digit at 100 PLC
VXI size	B size 2 slots
VXI interface	message based A16 slave
Maximum DC voltage	300 V all ranges
DC voltage ranges	100 mV to 300 V
Input resistance 0.1 to 10 V ranges	10 Mohm or greater than 10 Gohm selectable
Input resistance 100 V and 300 V ranges	10 Mohm plus or minus 1 percent
Input bias current	less than 30 pA at 25 C
Maximum DC current	3 A
DC current protection fuse	3.15 A 250 V ClassHaccessible
AC voltage maximum combined AC plus DC	300 Vrms all ranges
AC filter bandwidths	3 Hz 20 Hz 300 kHz selectable
AC voltage input impedance	1 Mohm plus or minus 2 percent parallel 100 pF
DC CMRR	140 dB
A/D linearity	0.0002 percent of reading plus 0.0001 percent of range
Integration time range	less than 1 PLC to 100 PLC
Readings per second at 0.02 PLC	1000
Function change speed	30 per second
Range change speed	65 per second
Autorange time	less than 30 ms
Maximum internal trigger rate	1000 per second

PARAMETER	VALUE
Maximum external trigger rate to memory	1000 per second
Line frequency reference	50 60 or 400 Hz selectable
Connectors	VXI P1/P2
Related higher slot model	E1412A Notes Specs from HP E1312A/E1412A multimeter specifications and operating manual. Confirm mainframe compatibility (not recommended in E1300A per manual) and installed options on the module.
Bandwidth	Key Features - 6.5 digit resolution at 100 PLC integration - DC voltage to 300 V with 300 V input protection - DC current to 3 A with front-panel fuse access - True RMS AC voltage with 3 Hz to 300 kHz filters - Function change 30 per second range cha

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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Notes

Specs from HP E1312A/E1412A multimeter specifications and operating manual. Confirm mainframe compatibility (not recommended in E1300A per manual) and installed options on the module.

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.