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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 34461A Digital Multimeter, 6 Digit, Truevolt DMM

Agilent Keysight 34461A Truevolt Digital Multimeter The Agilent/Keysight 34461A is a Truevolt digital multimeter with 6.5 digits of resolution and 35 ppm basic 1-year DCV accuracy. OEM Truevolt datasheets list DCV/ACV from 100 mV to 1000 V, USB/LAN interfaces, and graphical trend/histogram displays. Bench and system DCV/ACV/resistance/current measurements, temperature logging, and production test needing Truevolt accuracy and digitizing options on higher models. Truevolt graphical display with histograms The Agilent/Keysight 34461A is a Truevolt digital multimeter with 6.5 digits of resolution and 35 ppm basic 1-year DCV accuracy. OEM Truevolt datasheets list DCV/ACV from 100 mV to 1000 V, USB/LAN interfaces, and graphical trend/histogram displays. Bench and system DCV/ACV/resistance/current measurements, temperature logging, and production test needing Truevolt accuracy and digitizing options on higher models. Truevolt graphical display with histograms

ACI Range Class: 100 uA to 10 A class model dependent



MODEL

**Agilent / Keysight
34461A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34461A

LISTING

<https://aumictechlabs.com/products/34461a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 34461A is a 6½ digit digital multimeter engineered for precise measurements across DC/AC voltage, current, resistance, frequency, and specialized functions. Built on Truevolt

technology, this instrument eliminates real-world measurement errors - noise, input bias current, and injected current - delivering 35 ppm basic DCV accuracy (0.0035%) and true RMS AC measurements with crest factor support up to 10. Measurement capabilities span DCV to 1000 V, ACV to 750 V, DC/AC current from 100 μ A to 10 A, 2- and 4-wire resistance from 100 Ω to 100 M Ω , frequency and period from 3 Hz to 300 kHz, capacitance, diode testing, continuity, and temperature via RTD/PT100 and thermistor sensors. The 4.3-inch color graphical display supports number, histogram, bar chart, and trend chart modes, enabling real-time data visualization. Internal memory stores 10,000 readings with data logging for trend analysis and digitizing mode for transient capture.

Technical Specifications

Voltage (DCV):	0–1000 V
Voltage (ACV):	0–750 V
Current (DC/AC):	100 μ A–10 A
Resistance:	100 Ω –100 M Ω (2- and 4-wire)
Frequency/Period:	3 Hz–300 kHz
Capacitance:	Available
Temperature:	RTD/PT100 and thermistor support
Resolution:	6½ digits
Basic DCV Accuracy (1-year):	35 ppm
Maximum Reading Rate:	1,000 readings/s (4½ digits)
Display:	4.3-inch color graphical
Memory:	10,000 readings internal storage
Dimensions:	4.09 in (H) × 11.94 in (L) × 10.28 in (W)
Weight:	8.3 lbs

Key Features

- True RMS with direct digital sampling; crest factor capability to 10 without additional error terms
- Injected current minimized to less than 30% of comparable instruments
- ISO/IEC 17025 tested and guaranteed specifications
- Diode testing with 5 V range
- Continuity testing
- Data logging and trend analysis modes
- Transient digitizing capture

Interfaces & Connectivity

- USB and LAN/LXI standard
- GPIB optional (factory-installed or customer-installable)
- Front-panel USB memory connector for file transfer

Compatibility & Integration

- 100% SCPI-compatible drop-in replacement for the Keysight 34401A Digital Multimeter, enabling direct integration into existing test systems without code or hardware modifications.

34461A Characteristics / Specifications

PARAMETER	VALUE
Digits Of Resolution	6.5
Basic 1 Year DCV Accuracy	35 ppm
Maximum Reading Rate	1000 rdgs/s
Reading Memory	10000 readings
DCV Range	100 mV to 1000 V
ACV Range	100 mV to 1000 V
DCI Range	100 uA to 10 A
ACI Range Class	100 uA to 10 A class model dependent
Resistance Maximum	100 MOhm
Frequency Period Range	3 Hz to 300 kHz
Capacitance Range	1.0 nF to 100.0 uF
Diode Test Full Scale	5 V
Temperature	RTD/PT100 thermistor
Continuity	Supported
Display	Color graphical
Rear Input Terminals	Yes
Remote Interfaces	USB and LAN
Series Family	Keysight Truevolt DMM
AC RMS Technique	Digital direct sampling Truevolt
Crest Factor Capability Class	up to 10 without additional error terms class
Form Factor	Bench half-rack class

34461A Specifications

PARAMETER	VALUE
Agilent Keysight 34461A Truevolt Digital Multimeter	Overview
Technical Specifications	Digits Of Resolution: 6.5
Notes	From Keysight Truevolt Digital Multimeters datasheet/fact sheet rows for 34461A (5991-1983 / 5991-2110 family).

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
Digits Of Resolution	6.5
Basic 1 Year DCV Accuracy	35 ppm
Maximum Reading Rate	1000 rdgs/s
Reading Memory	10000 readings
DCV Range	100 mV to 1000 V
ACV Range	100 mV to 1000 V
DCI Range	100 uA to 10 A
ACI Range Class	100 uA to 10 A class model dependent
Resistance Maximum	100 MOhm
Frequency Period Range	3 Hz to 300 kHz
Capacitance Range	1.0 nF to 100.0 uF
Diode Test Full Scale	5 V
Temperature	RTD/PT100 thermistor
Continuity	Supported
Display	Color graphical
Rear Input Terminals	Yes
Remote Interfaces	USB and LAN
Optional GPIB: Available	
Specifications	
PARAMETER	VALUE
Series Family	Keysight Truevolt DMM
AC RMS Technique	Digital direct sampling Truevolt
Crest Factor Capability Class	up to 10 without additional error terms class
Form Factor	Bench half-rack class
Notes	
From Keysight Truevolt Digital Multimeters datasheet/fact sheet rows for 34461A (5991-1983 / 5991-2110	

family).

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.