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**Data Sheet**

August 14, 2026

AGILENT / KEYSIGHT

# Agilent / Keysight 34470A Digital Multimeter, 7 Digit, Truevolt DMM

Agilent Keysight 34470A Truevolt Digital Multimeter The Agilent/Keysight 34470A isaTruevolt digital multimeter with 7.5 digits of resolution and 16 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 34470A isaTruevolt digital multimeter with 7.5 digits of resolution and 16 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 Reading Memory: 50000 std / 2 million opt



MODEL

**Agilent / Keysight  
34470A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**34470A**

LISTING

<https://aumictechlabs.com/products/34470a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

**This unit**

The Keysight 34470A is a 7.5-digit benchtop digital multimeter engineered for precision measurement across voltage, current, resistance, frequency, and specialized functions. Leveraging Truevolt technology - a patented analog-to-digital converter architecture - the instrument eliminates measurement errors from noise and injected current while maintaining metrology-grade accuracy guaranteed to ISO/IEC 17025 standards. It delivers 16 ppm basic DC voltage accuracy and reads up to 50,000 samples per second, making it suitable for demanding production, service, and research environments.

**Technical Specifications**

**Resolution & Accuracy**  
7.5 digits of resolution  
16 ppm basic DC voltage accuracy  
50,000 readings per second maximum  
50,000 readings standard memory; expandable to 2 million with optional module

**Voltage & Current Measurements**  
DC Voltage: 100 mV to 1000 V  
AC Voltage RMS: 100 mV to 750 V  
DC Current: 1  $\mu$ A to 10 A  
AC Current RMS: 100  $\mu$ A to 10 A with true RMS via digital direct sampling; supports crest factors to 10 $\times$  without additional error terms

**Resistance, Frequency & Specialized Functions**  
2- and 4-wire resistance: 100  $\Omega$  to 1 G $\Omega$   
Frequency measurement: 3 Hz to 300 kHz  
Period measurement included  
Continuity and diode test (5 V capable)  
Temperature measurement: RTD/PT100, thermistors, thermocouples  
Capacitance: 1.0 nF to 100.0  $\mu$ F

**Display & Interface**  
4.3-inch color graphical display with number, histogram, bar chart, trend chart, math, and statistics modes  
Dual-line display capability  
USB and LAN/LXI Core connectivity standard; optional GPIB available  
Digitizing mode with advanced triggering included  
Data logging and BenchVue software compatibility

**Physical Benchtop:** 261.2 mm W  $\times$  303.2 mm D  $\times$  103.8 mm H  
**Weight:** 3.76 kg  
**Full accuracy operating range:** 0  $^{\circ}$ C to 55  $^{\circ}$ C

**Key Features**  
Auto-calibration compensates temperature drift  
Truevolt architecture balances resolution, linearity, accuracy, and speed  
50,000 readings/second acquisition for transient capture and trend analysis  
Native LXI/USB automation eliminates external controllers  
Flexible memory expansion via optional 3446MEMU module

**Typical Applications**  
Production test and burn-in; component characterization; circuit troubleshooting; temperature monitoring via thermocouples or RTDs; frequency and period analysis; high-speed data acquisition in automated test environments.

**Compatibility & Integration**  
USB and LAN/LXI Core included. Optional GPIB interface (Option 3446GPBU) available. Direct integration with BenchVue enables multi-instrument visualization and remote monitoring. Standard test lead set (34138A) supplied.

## 34470A Characteristics / Specifications

| PARAMETER                     | VALUE                                         |
|-------------------------------|-----------------------------------------------|
| Digits Of Resolution          | 7.5                                           |
| Basic 1 Year DCV Accuracy     | 16 ppm                                        |
| Maximum Reading Rate          | 50000 rdgs/s                                  |
| Reading Memory                | 50000 std / 2 million opt                     |
| DCV Range                     | 100 mV to 1000 V                              |
| ACV Range                     | 100 mV to 1000 V                              |
| DCI Range                     | 1 uA to 10 A                                  |
| ACI Range Class               | 100 uA to 10 A class model dependent          |
| Resistance Maximum            | 1000 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 thermocouples            |
| 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                         |

# 34470A Specifications

| PARAMETER                                           | VALUE                                                                                                           |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Agilent Keysight 34470A Truevolt Digital Multimeter | Overview                                                                                                        |
| Technical Specifications                            | Digits Of Resolution: 7.5                                                                                       |
| Notes                                               | From Keysight Truevolt Digital Multimeters datasheet/fact sheet rows for 34470A (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                                                                                   | 7.5                                           |
| Basic 1 Year DCV Accuracy                                                                              | 16 ppm                                        |
| Maximum Reading Rate                                                                                   | 50000 rdgs/s                                  |
| Reading Memory                                                                                         | 50000 std / 2 million opt                     |
| DCV Range                                                                                              | 100 mV to 1000 V                              |
| ACV Range                                                                                              | 100 mV to 1000 V                              |
| DCI Range                                                                                              | 1 uA to 10 A                                  |
| ACI Range Class                                                                                        | 100 uA to 10 A class model dependent          |
| Resistance Maximum                                                                                     | 1000 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 thermocouples            |
| 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 34470A (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](mailto: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.