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Data Sheet

August 6, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 34410A 6 1/2 Digit High-Performance DMM

Keysight (Agilent) 34410A 6 1/2 Digit High-Performance DMM The Keysight/Agilent 34410A is a 6½-digit high-performance digital multimeter with 30 ppm (0.0030%) 1-year basic DC accuracy. Streams 10,000 readings/s at 5½ digits and 1,000 readings/s at 6½ digits to a PC. Includes capacitance and temperature; 50,000-reading non-volatile data logger; LAN (LXI-C), USB, and GPIB. Succeeded by 34465A Truevolt. Related 34411A offers higher speed (50,000 rdg/s at 4½ digits) and 1 M reading memory. Bench and system DMM; automated manufacturing test; data logging; precision DC/AC/resistance/capacitance/temperature. The Keysight/Agilent 34410A is a 6½-digit high-performance digital multimeter with 30 ppm (0.0030%) 1-year basic DC accuracy. Streams 10,000 readings/s at 5½ digits and 1,000 readings/s at 6½ digits to a PC. Includes capacitance and temperature; 50,000-reading non-volatile data logger; LAN (LXI-C), USB, and GPIB. Succeeded by 34465A Truevolt. Related 34411A offers higher speed (50,000 rdg/s at 4½ digits) and 1 M reading memory. Bench and system DMM; automated manufacturing test; data logging; precision DC/AC/resistance/capacitance/temperature.



MODEL

**Keysight / Agilent
34410A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34410A

LISTING

<https://aumictechlabs.com/products/34410a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight (Agilent) 34410A is a 6½ digit benchtop digital multimeter engineered for precision measurement in demanding laboratory and system integration environments. It delivers 0.003% DC accuracy and extends the 34401A platform with faster acquisition rates, expanded memory, and modern connectivity - measuring DC/AC voltage and current, resistance (2-wire and 4-wire), frequency, period, capacitance, temperature, continuity, and diode parameters.

Technical Specifications

Resolution: 6.5 digits **Basic Accuracy:** DC 0.0030%, AC 0.06% **Measurement Speed:** Up to 1,000 readings/second at 6½ digits (direct to PC), or 10,000 readings/second at 5½ digits **Data Logging:** 50,000 readings (non-volatile) **Voltage Range:** DC up to 1000 V, AC up to 750 V (1000 Vpk max) **Current Range:** Up to 3 A DC or AC, with resolution down to 100 pA at 100 µA range **Resistance:** Up to 1 GΩ **Capacitance:** Up to 10 µF **Temperature:** Up to +600°C (via thermistor or RTD) **ACV Frequency Range:** 10 Hz – 20 kHz **Trigger Performance:** Latency <1 µs, jitter <1 µs, bus query response <500 µs **Peak Detection:** Captures transients as brief as 20 µs

Key Features

True RMS AC measurements for accurate non-sinusoidal signals Offset Compensated Ohms for resistance measurement under applied voltage Math and statistical analysis: null, dB, dBm, limits, statistics CAT II (300 V) input protection on main terminals LO-to-ground maximum rating of 500 Vpk

Interfaces & Integration LAN (LXI Class C), USB (High-Speed), and GPIB (IEEE-488) connectivity enable multiple integration paths. Web browser access and SCPI command compatibility support automated test systems. External trigger and measurement complete BNC connectors provide hardware synchronization. LabVIEW, IVI-COM drivers, and Keysight BenchVue compatibility simplify software integration.

Physical 261.2 mm (L) × 303.2 mm (W) × 103.8 mm (H); 3.7 kg.

Features & description

From manufacturer datasheet

Features

- Resolution: 6½ digits • Basic accuracy: 0.0030% DC (30 ppm, 1-year); ~0.06% AC class • Speed: 10,000 rdg/s @ 5½ digits; 1,000 rdg/s @ 6½ digits to PC • Functions: DCV, ACV, DCI, ACI, 2-/4-wire Ω , frequency, period, continuity, diode, capacitance, temperature • Expanded ranges: DC/AC current to 100 μ A (100 pA resolution class) • Peak detect: peaks as short as 20 μ s • Trigger latency/jitter: <1 μ s class; bus query <500 μ s • Data logger: 50 k non-volatile readings • Interfaces: LAN (LXI Class C), USB, GPIB • Power: ~25 VA peak / 16 W avg; weight ~3.72 kg

34410A Characteristics / Specifications

PARAMETER	VALUE
Model	34410A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Digital Multimeter
Alias	34410A; Agilent 34410A Accuracy / Speed 6½ digit; 30 ppm 1-year basic DCV; speeds as above Interfaces LAN LXI-C, USB, GPIB Operational Notes
Resolution	6½ digits
Basic accuracy	0.0030% DC (30 ppm, 1-year); ~0.06% AC class
Speed	10,000 rdg/s @ 5½ digits; 1,000 rdg/s @ 6½ digits to PC
Functions	DCV, ACV, DCI, ACI, 2-/4-wire Ω , frequency, period, continuity, diode, capacitance, temperature
Expanded ranges	DC/AC current to 100 μ A (100 pA resolution class)
Peak detect	peaks as short as 20 μ s
Trigger latency/jitter	<1 μ s class; bus query <500 μ s
Data logger	50 k non-volatile readings
Interfaces	LAN (LXI Class C), USB, GPIB
Power	~25 VA peak / 16 W avg; weight ~3.72 kg

34410A Specifications

PARAMETER	VALUE
Key Features	- Resolution: 6½ digits
Technical Specifications	Model: 34410A
Accuracy / Speed	6½ digit; 30 ppm 1-year basic DCV; speeds as above
Operational Notes	Prefer Keysight datasheet 5989-3738. Replacement: 34465A.

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.

Performance DMM

Overview

The Keysight/Agilent 34410A is a 6½-digit high-performance digital multimeter with 30 ppm (0.0030%) 1-year basic DC accuracy. Streams 10,000 readings/s at 5½ digits and 1,000 readings/s at 6½ digits to a PC. Includes capacitance and temperature; 50,000-reading non-volatile data logger; LAN (LXI-C), USB, and GPIB. Succeeded by 34465A Truevolt. Related 34411A offers higher speed (50,000 rdg/s at 4½ digits) and 1 M reading memory.

Applications

Bench and system DMM; automated manufacturing test; data logging; precision DC/AC/resistance/capacitance/temperature.

Key Features

- Resolution: 6½ digits
- Basic accuracy: 0.0030% DC (30 ppm, 1-year); ~0.06% AC class
- Speed: 10,000 rdg/s @ 5½ digits; 1,000 rdg/s @ 6½ digits to PC
- Functions: DCV, ACV, DCI, ACI, 2-/4-wire Ω, frequency, period, continuity, diode, capacitance, temperature
- Expanded ranges: DC/AC current to 100 μA (100 pA resolution class)
- Peak detect: peaks as short as 20 μs
- Trigger latency/jitter: <1 μs class; bus query <500 μs
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Model	34410A
Manufacturer	Keysight Technologies (Agilent)
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Alias	34410A; Agilent 34410A

Accuracy / Speed

6½ digit; 30 ppm 1-year basic DCV; speeds as above

Interfaces

LAN LXI-C, USB, GPIB

Operational Notes

Prefer Keysight datasheet 5989-3738. Replacement: 34465A.

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 ·
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.