Agilent Digital Multimeters
Agilent’s digital multimeters lead the industry in speed and accuracy and have a proven track record for reliability. Our digital multimeters offer exceptional performance and ease of use provided by intuitive front panels and standards-based programming interfaces.

From a bench top to a test rack to a handheld, there’s an Agilent digital multimeter that’s right for the job.

Designed to handle your toughest assignments in various applications
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U3400 Series 4½ and 5½ digit multimeters

Key features

- Up to 120 000 counts resolution
- Up to 0.012% basic DCV accuracy
- 11 basic measurements – DC, AC, AC+DC (True RMS), voltage and current
- Up to six built-in math functions – dBm, Relative, Min/Max, Compare, Hold
- Dual display on bright VFD
- Selectable resolutions for variable measurement speeds
- Kensington lock slot security
Models and specifications

Primary display
Secondary display

Input terminals and current fuse
Measurement function keypads
Autoranging, manual range and comparator operation
Math operation keypads
Shift Power on/off switch

Ordering Information

U3401A 4½-digit Dual Display Digital Multimeter
U3402A 5½-digit Dual Display Digital Multimeter

Each U3400 series includes:
- Quick Start Guide
- Product Reference CD
- Certificate of Calibration (CoC)
- 34138A Test Lead Kit
- AC Power Cord

Options:
- U3400A-100 USB to RS232 Cable
- U3400A-1CM Rack Mount Kit
- U3400A-1CN Dual Flange Kit

Accessories:
- 34138A Test Lead Kit
- U1161A Extended Test Lead Kit
- 34330A Current Shunt (30 A)
- 34133A Precision Electronic DMM Test Leads
- 11059A Kelvin Probe Set
- U3400A-1CM Rack Mount Kit

DCV Accuracy 0.02%
Reading speed N/A
Measurement functions DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, true RMS ACI, frequency, diode, continuity
Type of connectivity N/A

Technical Datasheet: Literature no. 5990-3970EN
The real two instruments in one box

U3606A multimeter | DC power supply

Key features

- 2-in-1-box convenience

Full-featured DMM

- 9 measurement functions, including capacitance
- 8 built-in math functions
- 4-wire milliohm measurement with 0.001 mW resolution

Full-featured DC Power Supply

- 30 W, dual-range 30 V/1 A and 8 V/3 A
- Ability to source constant-voltage and -current directly
- OVP and OCP load protection
- Auto ramp and scan for multi-level DC bias testing

www.agilent.com/find/hybrid-multimeter
Models and specifications

Ordering Information

U3606A 5½-digit Digital Multimeter | DC Power Supply

Each U3606A comes with:
- Quick Start Guide
- Product Reference CD
- Agilent IO Library Suite
- Certificate of Calibration
- U8201A Combo Test Lead Kit
- USB 2.0 High-Speed Type-A to Type B Cable
- AC Power Cord

Warranty options
- R-51B-001-3C  Extended warranty from one year to three years
- R-51B-001-5C  Extended warranty from one year to five years

Accessories
- U3606A-1CM  Rack Mount Kit
- U8201A  Combo Test Lead Kit
- U8202A  Electronic Test Lead Kit (for DMM function)
- 34133A  Precision Electronic Test Leads (for DMM function)
- 34330A  Current Shunt (30 A) (for DMM function)
- 34136A  40 kV High-voltage Probe (for DMM function)
- 11059A  Kelvin Probe Set
- 11062A  Kelvin Clip Set (for DMM function)
- E3600A-100  Test Lead Kit (for DC power supply function)

Technical Datasheet:
Literature no. 5990-3971EN
Uncompromising Performance for Benchtop and System Testing

34401A 6½ digit multimeter

Key features

▪ 12 measurement functions
▪ 1000 V maximum input
▪ 15 ppm or 0.0015% basic DCV accuracy (24-hour)
▪ 0.06% basic ACV accuracy (1 year)
▪ 1000 readings per second direct to GPIB
▪ GPIB and RS-232 standard
▪ SCPI commands standard
▪ Intuilink Connectivity Software included

www.agilent.com/find/34401A
Models and specifications

Ordering Information

34401A 6 ½-digit Digital Multimeter

Each 34401A includes:
- Test Lead Kit with Probe, Alligator and Grabber
- Operating Manual
- Service Manual
- Certificate of Calibration
- Test Report
- AC Power Cord

Accessories:

11059A  Kelvin Probe Set
11060A  Surface Mount Device (SMD) Test Probes
11062A  Kelvin Clip Set
34131A  Hard Transit Case
34161A  Accessory Pouch
34171B  Input Terminal Connector
34172B  Input Terminal Short
34330A  30 A Current Shunt
E2308A  5 kΩ Thermistor Temperature Probe
34137A  Deluxe Test Lead Kit
34190A  Rack Mount Kit with Filler Panel

DCV Accuracy 0.0035%
Reading Speed 1000 readings/second
Measurement DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance and RS-232, true RMS ACV/ACI, frequency, diode, continuity
Type of connectivity GPIB, RS-232

Technical Datasheet:
Literature no. 5968-0162EN
Affordable yet feature-rich measurement tool

34405A 5½ digit multimeter

Key features

- Up to 120 000 counts resolution
- 16 built-in measurement functions including temperature and capacitance
- 0.025% 1-year DC voltage accuracy
- USB 2.0
- SCPI compatible
- Agilent IO Library Suite and DMM Intuilink connectivity software included
Models and specifications

5.5 digit dual display increases productivity and troubleshooting throughput

DCV Accuracy 0.025%
Reading Speed -DCV 19 readings/second
Measurement DCV, ACV, DCI, ACI, 2-wire resistance, true RMS ACV/ACI frequency, capacitance, temperature, diode, continuity
Type of connectivity USB 2.0

Ordering Information

34405A 5 ½-digit Digital Multimeter

Each 34405A series includes:
- Test Lead Kit
- Test Report
- AC Power Cord
- USB Interface Cable
- Quick Start Guide
- User’s and Service Guide
- Product Reference CD-ROM
- Agilent IO Library Suite CD-ROM

Options:
Option 1CM Rack Mount Adapter Kit

Accessories:
34132A Precision Electronics DMM Test Leads
34330A 30 A Current Shunt
E2308A 5 kΩ Thermistor Temperature Probe
Affordable yet feature-rich measurement tool

34410A/34411A 6½ digit multimeter

**Agilent 34410A 6½-digit high-performance DMM**

**Key features**
- 10,000 readings/s @ 5½-digits direct to PC
- 1,000 readings/s @ 6½-digits direct to PC
- DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency, period, continuity and diode test
- Capacitance and temperature measurements
- Expanded measurement ranges
- Data logger with 50k reading non-volatile memory

**Agilent 34411A 6½-digit enhanced-performance DMM**

**Key features**
- All features of the 34410A plus:
  - 50,000 readings/s @ 4½-digits direct to PC
  - 1 million volatile reading memory
  - Analog level triggering
  - Programmable pre/post triggering

Models and specifications

Each 34410A/34411A includes:

- Test Lead Kit with Probes and SMT Attachments
- Test Report
- AC Power Cord
- USB Interface Cable

Accessories:

- 11059A Kelvin Probe Set
- 11060A Surface Mount Device (SMD) Test Probes
- 11062A Kelvin Clip Set
- 34131A Hard Transit Case
- 34162A Accessory Pouch
- 34171B Input Terminal Connector
- 34172B Input Calibration Short
- 34330A 30 A Current Shunt
- E2308A 5 kΩ Thermistor Temperature Probe
- 34190A Rack Mount Kit with Filler Panel

Technical Datasheet:
Literature no. 5989-3738EN
Nano-volt performance at a micro-volt price

34420A 7½ digit multimeter

Key features

- 7½ digits resolution
- 100 pv/ 100 n1/2 sensitivity
- 1.3 nVrms/8 nVpp noise performance
- Built-in low noise 2 channel scanner
- Direct SPRT, RTD, Thermistor, and thermocouple measurements

www.agilent.com/find/34420A
Models and specifications

Three resistance modes are included:
- Standard
- Low-power
- Voltage-limited for dry-circuit testing

Selectable analog or digital filtering

Built-in low noise two channel scanner with ratio and difference functions

DCV Accuracy 0.003 %
Reading Speed 250 readings/s
Measurement DCV, 2-wire and 4-wire resistance, temperature
Type of connectivity GPIB, RS-232

Technical Datasheet:
Literature no. 5968-0161EN

Ordering Information

34420A NanoVolt/Micro-Ohm Meter

Each 34420A includes:
- Low-thermal Input Cable (34102A)
- Low-thermal Shorting Plug (34103A)
- Kelvin Clip Set (11062A)
- Operating Manual
- Service Manual
- Quick Reference Guide
- Test Report with Cal

Accessories:
34102A Low-thermal Input Cable with Copper Spade Lugs
34103A Low-thermal Shorting Plug
34104A Low-thermal Input Connector
34131A Transit Case
34161A Accessory Pouch
Shattering performance barriers of speed and accuracy

3458A 8½ digit multimeter

Key features

▪ 8½ to 4½ digits resolution
▪ Up to 100,000 readings/sec (4.5 digit)
▪ Maximum sensitivity: 10 nV
▪ Programmable integration times from 500 ns to 1 sec
▪ Two-source (10 V, 10 kΩ) calibration, including ac
▪ Self-adjusting, self-verifying auto-calibration for all functions and ranges, including ac
▪ Multimeter Language (ML) compatible
Models and specifications

- DCV Accuracy: 0.0008 %
- Reading Speed - DCV: Up to 100,000 readings/second (4.5 digits)
- Measurement: DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency
- Type of connectivity: GPIB

Accessories:
- 11053A: Low Thermal Test Lead Pair, Spade Lug to Spade Lug, 0.9 m
- 11174A: Low Thermal Test Lead Pair, Spade Lug to Banana, 0.9 m
- 11058A: Low Thermal Test Lead Pair, Banana to Banana, 0.9 m
- 11059A: Kelvin Probe Set (4-wires, 1 m)
- 11062A: Kelvin Clip Set
- E2308A: 5 kΩ Thermistor Temperature Probe
- 10833A/B/C/D: GPIB Cable
- 3458A-ABZ: Italian Manual

Ordering Information

3458A Multimeter

Each 3458A includes:
- Test Lead Set (34118B)
- Power Cord
- Operating Manual
- Calibration Manual
- Assembly Level Repair Manual
- Quick Reference Guide
Handheld and modular DMMs

Go further with Agilent handheld digital multimeters

Recognizing the increasing demand for tools that are portable, accurate and yet affordable, Agilent offers handheld digital multimeters, multi-function calibrator/meter and clamp meters for installation and maintenance activities. Other handheld instruments include digital oscilloscopes, capacitance and LCR meters.

These award-winning handheld tools meet critical safety standards while providing a wealth of features and world-class accuracy. Each handheld comes in vivid orange cases that provide greater visibility and serves to highlight investment protection through feature sets that go beyond those of typical handhelds.

USB Modular digital multimeter – a bench that fits into a bag

Agilent’s USB modular DMM is the innovative solution for laboratory environments. It provides bench instrument capabilities in an affordable, space-saving form factor. It can be used as a standalone instrument or mounted in a chassis with other modules. This enables flexible configurations and quick setup in electronic functional test and troubleshooting applications.

Other USB-based modular instruments include oscilloscopes, function generator, source measure unit, switch matrix and data acquisition products such as multi-function measurement modules, digital input/output devices and thermocouple input.
Ergonomically designed for safer measurements

U1190 Series handheld clamp meters

Key features

- Unique wire separator to separate wires from a bundle
- Vsense to perform non-contact voltage detection\(^1\)
- Built-in LED flashlight to illuminate test area\(^2\)
- Current measurement up to 600 A\(^2\)
- Digital multimeter (DMM) with Resistance, Capacitance\(^1\), DCV, ACV, DC\(\mu\)A\(^3\), AC\(\mu\)A\(^3\), Continuity and Diode test measurements
- CAT III 600 V / CAT IV 300 V safety ratings

1 Only for U1192A, U1193A and U1194A
2 Only for U1193A and U1194A
3 Only for U1194A
Models and specifications

Ordering Information

U1191A Clamp Meter
U1192A Clamp Meter
U1193A Clamp Meter
U1194A Clamp Meter

Each handheld comes with:
- Certificate of calibration
- Quick Start Guide
- K-type thermocouple (only for U1194A)
- 1.5 V AAA Alkaline battery
- Soft carrying case
- Test leads with 4-mm tips

DCV Accuracy 0.5+3
Reading speed 3 readings/s
Measurement functions DCV, ACV, DCI, ACI, resistance, capacitance, diode test, temperature, frequency, continuity
Type of connectivity N/A

Technical Datasheet:
Literature no. 5990-8646EN

1. Exclusive to U1192A, U1193A, and U1194A
2. Exclusive to U1194A
Handle big currents – safely

U1210 Series handheld clamp meters

Key features

▪ Large clamp opening of 52 mm or 2”
▪ High measurement capability of up to 1000 A for AC, DC or AC+DC
▪ CAT III 1000 V/CAT IV 600 V safety rating
▪ Includes full-featured DMM with resistance, capacitance, frequency and temperature functions
▪ High resolution measurements – measure current as low as 0.01 A
▪ Peak hold capability

www.agilent.com/find/clampmeter
Models and specifications

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Each clamp meter is shipped with:
- Test Leads with 4-mm Tips
- Soft Carrying Case
- Standard Alkaline 9 V Battery
- Quick Start Guide
- Certificate of Calibration

Technical Datasheet:
Literature no. 5990-5083EN
Robust and feature-packed

U1230 Series handheld digital multimeters

Key features

▪ Built-in LED flashlight to illuminate test area
▪ Flashing backlight as additional visual alert during continuity tests in noisy areas
▪ Vsense performs non-contact voltage detection
▪ Data logging capability (stores up to 10 readings)
▪ IR-to-USB connectivity to transfer data to PC for record
Models and specifications

Ordering Information

U1231A Digital Multimeter
U1232A Digital Multimeter
U1233A Digital Multimeter

Each handheld comes with:
- Quick Start Guide
- Certificate of Calibration (CoC)
- U1167A 4 mm tips probes test leads
- 4 x 1.5 V batteries

Technical Datasheet:
Literature no. 5990-7550EN

DCV Accuracy 0.5%+2
Reading speed 5 readings/s
Measurement functions DCV, ACV, ACI, DCI, capacitance, diode test, resistance, temperature*, frequency, continuity test
Type of connectivity IR-USB cable and GUI software

1. Applies to U1233A only
U1240 Series handheld multimeters

Key features

- 10,000 display counts resolution
- 0.09% basic DCV accuracy
- True RMS AC measurement
- Basic functions – ACV, DCV, ACI, DCI, resistance, frequency, diode, continuity tests
- Advanced functions – capacitance, temperature, MINMAX recording
- Adjustable backlighting – 2 intensity levels
- Manual data logging (U1242A/U1242B only)
- Built-in switch counter, harmonic ratio (U1242A/U1242B only), dual/differential temperature capabilities (U1242A/U1242B only)
- CAT III 1000 V and CAT IV 600 V safety protection
Models and specifications

- DCV Accuracy: 0.09 %
- Reading speed: 7 readings/s
- Measurement functions: DCV, ACV, DCI, ACI, 2-wire resistance, frequency, capacitance, temperature, diode, continuity tests
- Type of connectivity: N/A

Ordering Information

U1241A/U1241B Digital Multimeter
U1242A/U1242B Digital Multimeter

Each handheld comes with:
- Four 1.5 V AAA Alkaline Batteries
- Certificate of Calibration
- Test Probe Leads (4-mm tips)
- Quick Start Guide
- Free test data (Option UK6)

Technical Datasheet:
Literature no. 5989-7040EN
Be well equipped from the start

U1250 Series handheld multimeters

Key features

▪ High contrast ratio of 2000:1 and wide viewing angle of 160°*
▪ 50,000 counts high resolution and up to 0.025% low error rate
▪ Built-in square-wave generator and frequency counter
▪ Includes all essential accessories for electronics troubleshooting
▪ Smoothing function to stabilize erratic readings*
▪ Data logging to instrument and PC

* with U1253B

www.agilent.com/find/handhelddmm
Models and specifications

Ordering Information
U1251B Digital Multimeter
U1252B Digital Multimeter
U1253B Digital Multimeter

Each U1251B/U1252B comes with:
- Standard Test Leads (4-mm tips)
- Alligator Clips
- Battery Charger (for U1252B)
- Certificate of Calibration
- Test Report
- Quick Start Guide

Each U1253B comes with:
- Standard Test Leads (4-mm tips)
- Alligator Clips
- Battery Charger
- Certificate of Calibration
- Test Report
- Quick Start Guide

DCV Accuracy 0.025 %
Speed 100 readings/second
Measurement functions DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency, capacitance, temperature, diode, continuity tests
Type of connectivity IR-USB

Technical Datasheet:
Literature no. 5989-5509EN
U1270 Series handheld digital multimeters

Key features

- Clear and distinct display with OLED technology*
- Low impedance mode**, Smart Ω**, low pass filter
- Flashing backlight alert plus audible continuity indication for dark and noisy environments
- Easy fuse replacement
- Dust and water resistant (certified to IP 54)
- Easy connectivity to PC with optional IR-USB cable
- Ergonomic shape for better grip
- Large knob and buttons

* For U1273A only
** For U1272A and U1273A
Models and specifications

Ordering information:
U1271A Digital Multimeter
U1272A Digital Multimeter
U1273A Digital Multimeter

Each handheld comes with:
- Standard test leads
- Test probes with 4-mm tips
- K-type thermocouple and adapter
- 4 x AAA batteries
- Certificate of Calibration
- UK 6 (test report)
- Quick Start Guide

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<th>0.05%</th>
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Technical Datasheet:
Literature no. 5990-6425EN
Calibrate while you measure with just one tool

U1401B handheld multi-function calibrator/meter

Key features

▪ Dual display with bright LCD backlight
▪ Simultaneous source and measure
▪ Bipolar voltage and current, square-wave, auto scan and ramp outputs
▪ Full-span DMM capability, including temperature and frequency measurements
▪ Hold and Min/Max/Average recordings
▪ Data logging to PC with optional
Models and specifications

Ordering Information

U1401B Multi-function Calibrator/Meter

Each U1401B is shipped with:
- Calibrator/Meter Standard Test Lead Kit
- Yellow Test Lead for mA Simulation
- Protective Holster
- Rechargeable Battery Pack
- AC Power Adapter and Cord (according to country)
- Quick Start Guide
- Certificate of Calibration
- Soft Carrying Case is included for U1401A

Technical Datasheet:
Literature no. 5990-3459EN

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A bench that fits into your bag

U2741A 5 ½-digit USB modular multimeter

Key features

▪ Up to 100 readings per second
▪ Up to 300 VDC with 5 ½-digit resolution
▪ Frequency and temperature measurement capability
▪ Wide measurement ranges: 100 mVDC to 300 VDC, 10 mA to 2 A
▪ Compatibility with Hi-speed USB 2.0, USBTMC-USB488 standard
▪ Standalone and modular capabilities
▪ Bundled software – Agilent Measurement Manager (AMM)
Models and specifications

Ordering Information

U2741A Digital Multimeter

Each U2741A comes with:

- 12 V, 2A AC/DC Power Adapter
- Power Cord
- Standard Test Lead
- USB Standard-A to Mini-B Interface Cable
- L-Mount Kit (used with modular product chassis)
- Agilent USB Modular Products Quick Start Guide
- Agilent Measurement Manager Quick Reference Card
- Certificate of Calibration
- Agilent USB Modular Products Reference CD-ROM
- Agilent Automation-Ready CD-ROM
  (contains the Agilent IO Libraries Suite)

Accessories:

- U2921A-101 USB Secure Cable, 2m
- 34138A Test Lead Set
- E2308A 5 kΩ Thermistor Temperature Probe
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