

Keysight Technologies Digital Multimeters



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| Model | Description | Digits of resolution | Measurement speed (reading/s at 4 1/2 digits) | Basic 1-yr DCV accuracy | Basic measurements | Connectivity & software | Page: |
|--|--|----------------------------|---|----------------------------|--|---|-------|
|  U3401A/U3402A | Benchtop DMM, dual display Elegantly simple and affordable DMMs with basic and good capabilities | 4½ (U3401A) 5½ (U3402A) | N/A | 0.0120% | DCV, ACV, DCI, ACI, 2-wire resistance (4-wire on U3402A), frequency, continuity, and diode | N/A | 4 |
|  U3606A/U3606B | 5.5-digit DMM with built-in 30 W power supply Halves bench/rackspace need for two instruments | 5½ | 26 | 0.0250% | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, continuity, diode, and capacitance 30-W with four output ranges, OVP/OCF, auto scan/ramp and square wave generator | USB 2.0, GPIB | 5 |
|  34450A | 5.5 digit bench digital multimeter OLED dual display | 5½ | 190 | 0.0150% | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, continuity, diode, capacitance, and temperature | USB 2.0, Serial Interface (RS-232), GPIB DMM Connectivity Utility software (page 24) | 6 |
|  34460A/34461A | Bench/System DMM 34401A Replacement for accuracy, speed, measurement ease and versatility | 6½ | 300/1000 | 0.0075/0.0035% | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, continuity, diode, temperature | USB, LAN/LXI Core, GPIB, DMM Connectivity Utility (page 24) | 7 |
|  34401A | Bench/System DMM Industry standard for accuracy, speed, measurement ease and versatility | 6½ | 1000 | 0.0035% | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, continuity, and diode. | GPIB, RS-232, DMM Connectivity Utility software (page 24) | 8 |
|  34410A/34411A | Bench/System DMM, dual display Highest throughput of benchtop DMMs, best choice for system use | 6½ | 10,000 (34410A) 50,000 (34411A) | 0.0030% | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, continuity test, capacitance, temperature | USB, LAN/LXI Core, GPIB, DMM Connectivity Utility software (page 24) | 9 |
|  34420A | Nanovolt/μΩ meter Very accurate, low-level measurements | 7½ | 250 | 0.0030% | DCV, DCI, 2- and 4-wire resistance, 2 channel scanning, temperature | GPIB, RS-232, Intuilink software | 10 |
|  3458A | Bench/System DMM The fastest, most flexible and most accurate multimeter by Keysight Ideal multimeter for demanding applications | 8½ | 100000 (@ 4½ digits) | 0.0008% (0.0004% optional) | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, and temperature | GPIB | 11 |

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| Model | Description | Digits of resolution | Measurement speed (reading/s at 41/2 digits) | Basic 1-yr DCV accuracy | Basic measurements | Connectivity & software | Page: |
|--|---|----------------------|--|-------------------------|---|--|-------|
|  U1190 Series | Handheld DMM Illuminate test area and measure in safer manner | 3½ | 3 | 0.5% | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, continuity, diode, capacitance, temperature | N/A | 13 |
|  U1210 Series | Handheld clamp meter For convenient high current measurements | 3½ | 7 | 0.5% | DCV, ACV, DCI, ACI, 2-wire resistance, frequency, continuity, diode test, capacitance, temperature | IR-USB, Bluetooth® | 14 |
|  U1230 Series | Handheld DMM Retool your expectations with the Keysight U1230 Series handheld DMM | 3½ | 5 | 0.5% | DCV, ACV, DCI, ACI, resistance, frequency, continuity, diode test, capacitance, temperature | IR-USB, Bluetooth | 15 |
|  U1240 Series | Handheld DMM Feature-rich and robust DMMs | 4 | 7 | 0.09% | DCV, DCI, ACV, ACI, 2-wire resistance, frequency, continuity, diode test, switch counter, harmonic ratio, capacitance, temperature, 4-20 mA % scale | IR-USB, Bluetooth | 16 |
|  U1250 Series | Handheld DMM Versatile, high performance DMMs | 4½ | 7 | 0.025% | DCV, DCI, ACV, ACI, 2-wire resistance, frequency, continuity, diode test, dB, capacitance, temperature, frequency counter, 4-20 mA % scale | IR-USB, Bluetooth | 17 |
|  U1270 Series | Handheld DMM More functionality in a single tool | 4½ | 7 | 0.05% | DCV, DCI, ACV, ACI, 2-wire resistance, frequency, continuity, diode test, dB, capacitance, temperature, 4-20 mA % scale | IR-USB, Bluetooth | 18 |
|  U1401B | Handheld multi-function calibrator/meter Calibrator and DMM in one tool | 4½ | 3 | 0.003% | DCV, ACV, DCI, ACI, 2-wire resistance, temperature, frequency, diode test, continuity, pulse width, duty cycle | IR-USB | 19 |
|  U2741A | USB Modular DMM Compact, with plug-and-play simplicity | 5½ | 100 | 0.02% | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency and period, continuity, diode test, temperature | USB 2.0 | 20 |
|  M9181A | PXI DMM - basic features, Best for functional test when there are multiple tests with range or function changes. | 6½ | 150 | .009% | DCV, DCI, ACV, ACI, 2- and 4-wire resistance | PXI module; IVI-C, IVI-COM, LabVIEW, MATLAB drivers. Signametrics compatible driver is also available | 21 |
|  M9182A/M9183A | PXI DMM High and enhanced performance models. Best for functional test when there are multiple tests with range or function changes. | 6½ | 4,500 for M9182A 15,000 for M9183A | .004% | All M9181A measurements, plus frequency/period, capacitance, and temperature. M9183A includes duty cycle, counter/totalizer, and DC source. | PXI-hybrid module; IVI-C, IVI-COM, LabVIEW, MATLAB drivers. Works in popular test development environments such as Visual Studio® (VB, NET, C#, C/C++). Signametrics compatible driver is also available | 21 |
|  U1177A | Infrared (IR)-to-Bluetooth® Adapter Enables Bluetooth connection to Keysight U1210, U1230, U1240, U1250 and U1270 series handheld multimeter for remote monitoring & data logging. | N/A | N/A | N/A | N/A | Keysight Mobile Meter Keysight Mobile Logger | 12 |

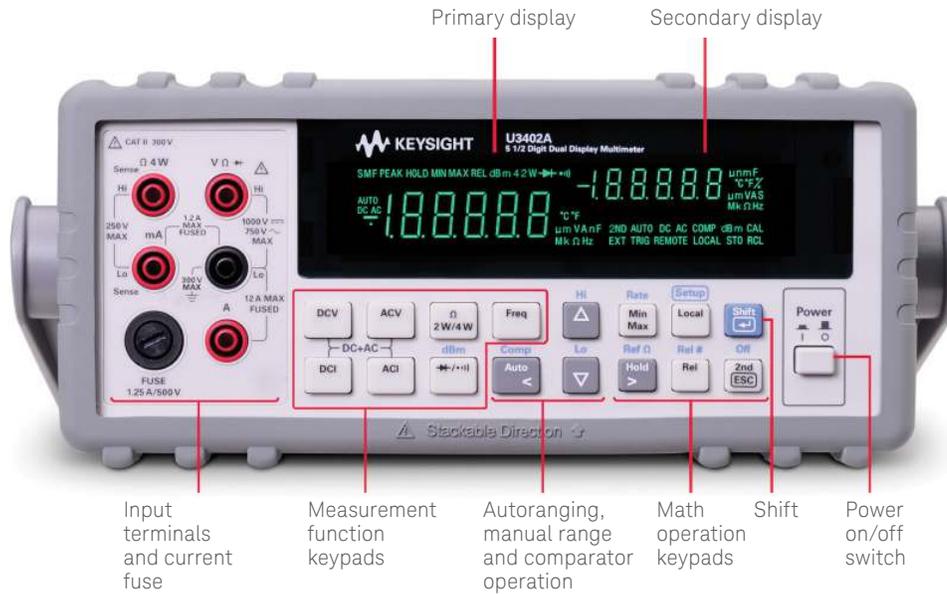
Basic + good = elegant simplicity

U3400 Series 4½ and 5½ digit multimeters



Key features

- Up to 120,000 counts resolution
- 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



Key specifications

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

Technical datasheet:

Literature number 5990-3970EN

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

Two instruments in one

U3606A/U3606B multimeter|DC power supply



Key features

Full-featured DMM

- 8 built-in math functions
- 120,000 counts resolution
- 4-wire mΩ measurement with 0.001 mΩ resolution

Full-featured DC power supply

- 30 W, 30 V/1 A, 100 mA/30 V, 8 V/3 A and
- 1000 mV/3 A ranges
- OVP and OCP load protection
- Auto ramp and scan for multi-level DC bias testing
- Up to 4.8 kHz square-wave output



Key specifications

| | |
|-----------------------|---|
| DCV accuracy | 0.025% |
| Reading speed | 26 readings/second |
| Measurement functions | DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency, diode, continuity, and capacitance |
| Type of connectivity | GPIO, USB 2.0 |

Technical datasheet:
Literature number 5991-2849EN

Ordering information

U3606A 5½ digit digital multimeter|DC power supply
U3606B 5½ digit digital multimeter|DC power supply

Each unit includes:

- Quick start guide
- Product reference CD
- Keysight Technologies, Inc. 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

Turbo charge your measurements with one of the fastest tools in its class

34450A bench digital multimeter



Key features

- Fast reading speed up to 190 readings/sec
- Multiple connectivity options – USB 2.0, Serial Interface (RS-232) and GPIB
- Up to 50,000 memory points for data logging
- Built-in histogram function
- With Fluke 45 and Fluke 8808A code compatibility

5.5 digit OLED dual display allows clear and quick view of measurements



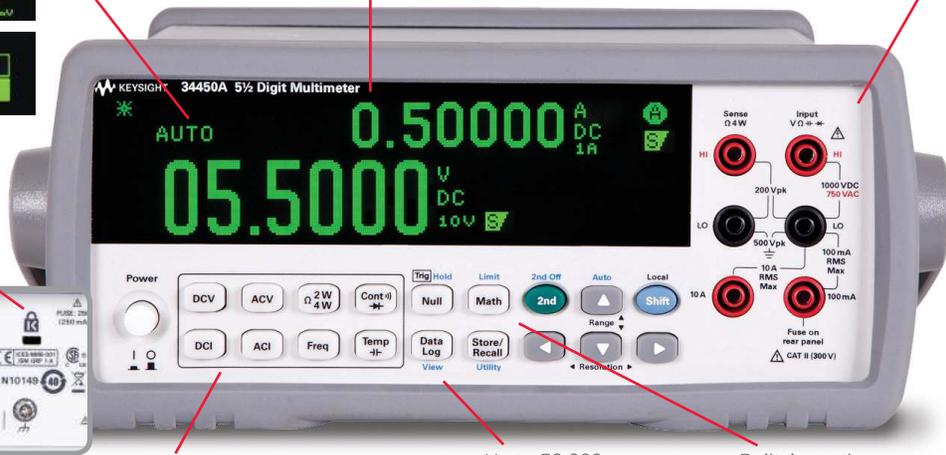
Fast 190 readings/sec and 0.015% DCV accuracy to help you achieve throughput breakthrough

Input terminals

Kensington lock to better secure the unit



Multiple choices of connectivity and trigger in/out capability for production data analysis



Eleven measurement functions

Up to 50,000 memory points for data logging and histogram function

Built-in math functions

Key specifications

| | |
|-----------------------|--|
| DCV accuracy | 0.015% |
| Reading speed | 190 readings/s |
| Measurement functions | DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency, diode, continuity, capacitance, temperature |
| Type of connectivity | USB 2.0, Serial Interface (RS-232) and GPIB |

Technical datasheet:
Literature number 5991-1133EN

Ordering information

34450A 5 1/2 digit dual display digital multimeter

Each 34450A includes:

- Test lead kit
- Power cord
- USB interface cable
- Quick start guide
- Product reference CD
- Keysight IO Library Suite CD-ROM

Upgradable options:

- 3445GPBU GPIB connectivity upgrade
- 3445MEMU 50,000 memory points upgrade for data logging

The new standard for uncompromising performance in bench and system test

34460A/34461A 6½ digit Truevolt DMM



Key features

Display DMM results in ways you never have before

- Color, graphical display with built-in bar chart, histogram, trend (34461A only), math, and statistics
- Save and document your DMM's data from your PC, mobile device, or IO of choice

Measure with unquestioned Truevolt confidence

- Digital AC, lowest measurement noise, ISO/IEC derived and compliant specifications

- 1000 V max voltage input, 3 A/10 A (34461A) max current input

Move to the next generation 34401A DMM with 100% assurance

- Industry's only 100% drop-in, SCPI compatible replacement for the Keysight 34401A DMM (34461A)

Key specifications

| | |
|---------------------------|---|
| DCV accuracy | 0.0075/0.0035% |
| Reading speed - 4½ Digits | 300/1000 readings/s |
| Measurements | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, diode, continuity, temperature |
| Type of connectivity | USB, LAN/LXI Core (Option on 34460A, Std on 34461A) GPIB (Optional) |

Ordering information

34460A 6½ digit, basic Truevolt DMM
 34461A 6½ digit, 34401A replacement, Truevolt DMM

Upgradeable options:

- 3446ACCU - Accessory kit for 34460A (documentation, test leads, USB cable)
- 3446GPBU - GPIB user installable interface module
- 3446LANU - Enable rear panel LAN/LXI web interface, external triggering for 34460A
- 3446SECU - Enable NISPOM and file security

Technical datasheet:

Literature number 5991-1983EN

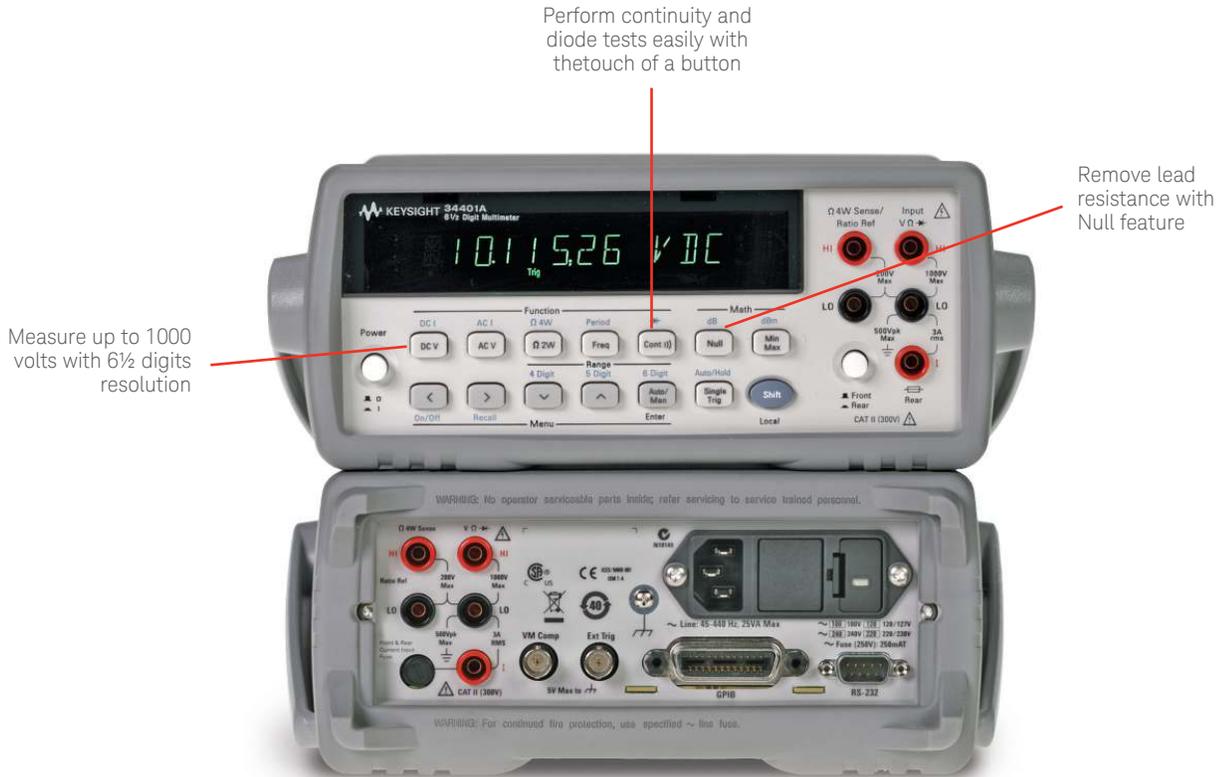
Uncompromising performance for benchtop and system testing



34401A 6½ digit multimeter (Replaced by 34461A 61/2 digit Truevolt multimeter)

Key features

- 1000 V maximum input
- SCPI commands standard
- Intuilink Connectivity Software included



Key specifications

| | |
|----------------------|---|
| DCV accuracy | 0.0035% |
| Reading speed - DCV | 1000 readings/second |
| Measurements | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, diode, continuity |
| Type of connectivity | GPIB, RS-232 |

Technical datasheet:
Literature number 5968-0162EN

Ordering information

34401A 6½ 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

Affordable yet feature-rich measurement tool

34410A/34411A 6½ digit multimeter



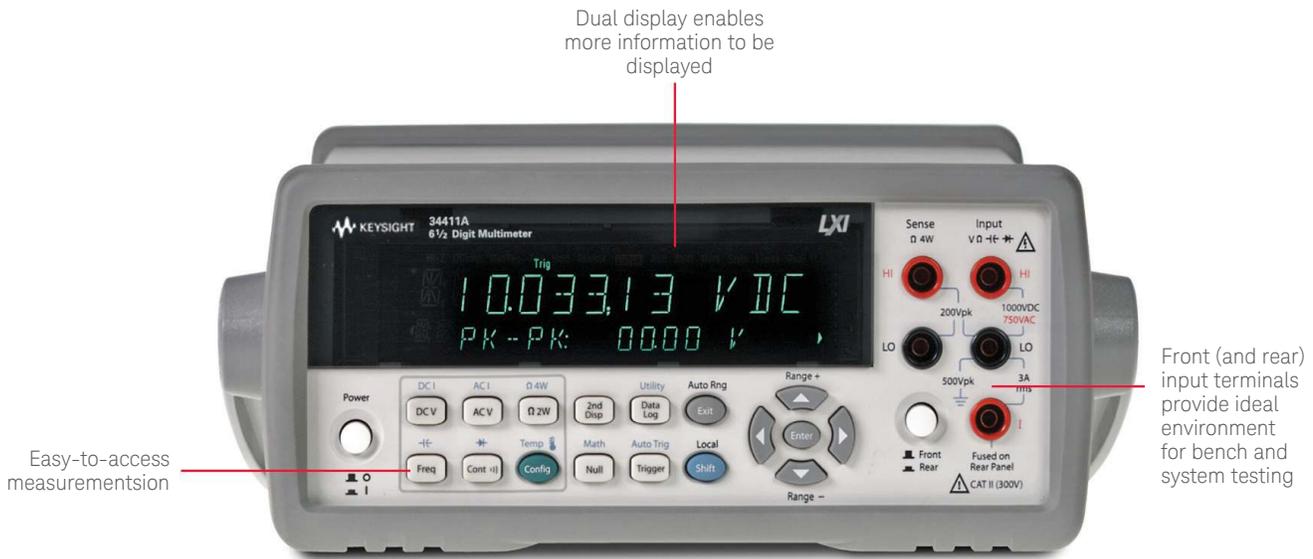
Key features

Keysight 34410A 6½ digit high-performance DMM

- Expanded measurement ranges
- Data logger with 50k reading non-volatile memory

Keysight 34411A 6½ digit enhanced-performance DMM

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



Key specifications

| | |
|----------------------|---|
| DCV accuracy | 0.0030% |
| Reading speed - DCV | 34410A 10,000 readings/s 34411A 50,000 readings/s |
| Measurements | DCV, ACV, DCI, ACI, 2- and 4-wire resistance, continuity, diode, capacitance, temperature |
| Type of connectivity | GPIB, USB 2.0, LAN (LXI Core) |

Ordering information

34410A 6½ digit digital multimeter
34411A 6½ digit digital multimeter

Each 34410A/34411A includes:

- Test lead kit with probes and SMT attachments
- Test report
- AC power cord
- USB interface cable

Technical datasheet:

Literature number 5989-3738EN

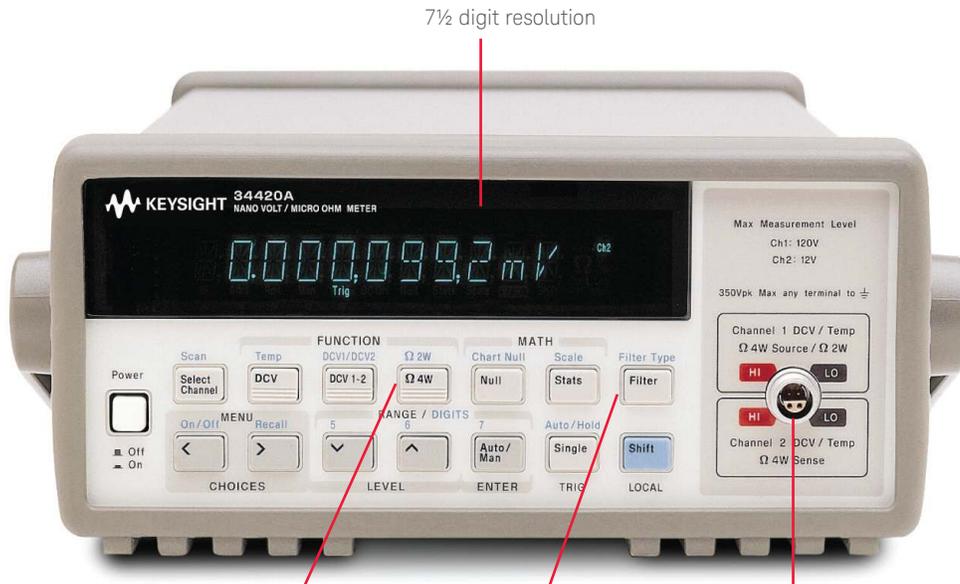
Nanovolt performance at a micro-volt price

34420A 7½ digit multimeter



Key features

- 100 pV/ 100 nΩ/2 sensitivity
- 1.3 nVrms/8 nVpp noise performance
- Built-in low noise 2-channel scanner
- Direct SPRT, RTD, thermistor, and thermocouple measurements



7½ digit resolution

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

Key specifications

| | |
|----------------------|--|
| DCV accuracy | 0.0030% |
| Reading speed – DCV | 250 readings/s |
| Measurements | DCV, 2- and 4-wire resistance, temperature |
| Type of connectivity | GPIB, RS-232 |

Technical datasheet:

Literature number 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

Shattering performance barriers of speed and accuracy

3458A 8½ digit multimeter



Key features

- 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

16 character alpha-numeric display to easily read data, messages and commands

Gold-plated tellurium copper terminals (volts/ohms/ratio) for minimum thermal emf



Guard terminal and switch for maximum common mode noise rejection

Shifted keys (f0 through f9) access up to ten user-defined setups

Key specifications

| | |
|----------------------|---|
| DCV accuracy | 0.0008% (Optional 0.0004%) |
| Reading speed DVC | Up to 100,000 readings/second (4 1/2 digits) |
| Measurements | DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency |
| Type of connectivity | GPIB |

Ordering information

3458A multimeter

Each 3458A includes:

- Test lead set (34118B)
- Power cord
- Operating manual
- Calibration manual
- Assembly level repair manual
- Quick reference guide

Technical datasheet:

Literature number 5965-4971E

Go further with Keysight handheld digital multimeters

U1177A Infrared (IR)-to-Bluetooth Adapter

Monitoring multiple measurements simultaneously and wirelessly is now made possible with the U1177A Infrared (IR)-to-Bluetooth adapter. To achieve this, simply install the free software on your Android smart phone or tablet,

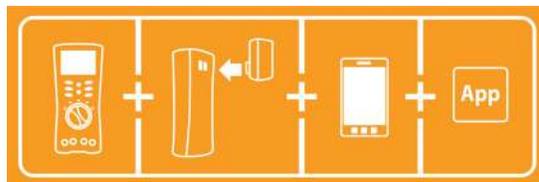
and connect it to any Keysight handheld digital multimeter (HHDMM) that is attached to a U1177A. With this, you not only get real-time measurement monitoring and data logging, both apply to Android devices and PCs as well.

Key features

- Compatible with all Keysight U1200 Series handheld meters and U1210 Series handheld clamp meters
- Monitor up to 3 multimeter measurements at the same time with Keysight Mobile Meter software
- Perform real-time data logging with Keysight Mobile Logger software



Keysight U1177A Infrared (IR)-to-Bluetooth adapter



Keysight wireless remote connectivity solution

Ergonomically designed for safer measurements

U1190 Series handheld clamp meters



Key features

- Vsense to perform non-contact voltage detection¹
- Built-in LED flashlight to illuminate test area¹
- Current measurement up to 600 A²
- Digital multimeter (DMM) with Resistance, Capacitance¹, DCV, ACV, DC μ A³, AC μ A³, 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



1. Exclusive to U1192A, U1193A, and U1194A
 2. Exclusive to U1194A

Key specifications

| | |
|-----------------------|---|
| 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 number 5990-8646EN

Ordering information

- U1191A clamp meter
- U1192A clamp meter
- U1193A clamp meter
- U1194A clamp meter

Each handheld includes:

- 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
- Test report with cal



Built-in LED flashlight to illuminate test area

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

Bluetooth wireless connectivity (optional U1177A Infrared (IR)-to-Bluetooth Adapter required)



- Capacitance/diode measurement
- Temperature and audible continuity functions
- High measurement capability of up to 1000 A for AC, DC or AC+DC

Peak hold function for in-rush current testing



Large jaw opening of 2" to test thick current sources

Max or Min recording capability

Large LCD display with maximum reading of 4000 counts

Manual or auto ranging

Key specifications

| | |
|----------------------|--|
| DCV accuracy | 0.50% |
| Reading speed | 7 readings/s |
| Measurements | DCV, ACV, DCI, ACI, 2-wire resistance, capacitance, temperature, frequency, diode test, continuity |
| Type of connectivity | IR-USB and Bluetooth |

Technical datasheet:

Literature number 5990-5083EN

Ordering information

- U1211A clamp meter
- U1212A clamp meter
- U1213A clamp meter

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

Robust and feature-packed U1230 Series handheld digital multimeters



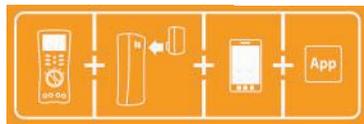
Key features

- 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

Bluetooth wireless connectivity (optional U1177A Infrared (IR)-to-Bluetooth Adapter required)



1. Only applicable for the U1233A model



The built-in flashlight as illustrated

Key specifications

| | |
|-----------------------|--|
| DCV accuracy | 0.5%+2 |
| Reading speed | 5 readings/s |
| Measurement functions | DCV, ACV, ACI, DCI, diode test, capacitance, resistance, temperature*, frequency, continuity test *Applies to U1233A only |
| Type of connectivity | IR-USB and Bluetooth |

Ordering information

- U1231A digital multimeter
- U1232A digital multimeter
- U1233A digital multimeter

Each handheld comes with:

- Quick start guide
- Certificate of calibration
- U1167A 4 mm tips probes test leads
- 4 x 1.5 V batteries

Technical datasheet:
Literature number 5990-7550EN

Check more, fix more, spend less

U1240 Series handheld multimeters



Key features

- True RMS AC measurement
- Advanced functions – capacitance, temperature, MINMAX recording
- Manual data logging (U1242B only)
- Built-in switch counter, harmonic ratio (U1242B only), dual/differential temperature capabilities (U1242B only)
- CAT III 1000 V and CAT IV 600 V safety protection

Bluetooth wireless connectivity (optional U1177A Infrared (IR)-to-Bluetooth Adapter required)



Key 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 | IR-USB and Bluetooth |

Ordering information

U1241B digital multimeter
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 number 5989-7040EN

Be well equipped from the start

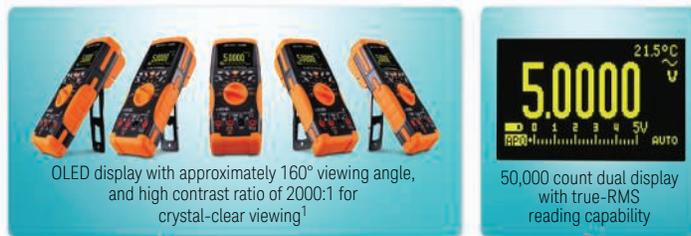
U1250 Series handheld multimeters



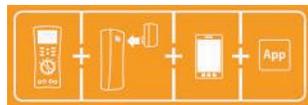
Key features

- High contrast ratio of 2000:1 and wide viewing angle of 160°*
- 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

Bluetooth wireless connectivity (optional U1177A Infrared (IR)-to-Bluetooth Adapter required)



1. U1253B only
2. U1252B/U1253B only



Best Value Portable Test Equipment, 2006



A testament to innovation and credibility, 2006



General-purpose instruments category, 2009



Category Winner, EC&M Product of the Year competition, 2009

Key specifications

| | |
|-----------------------|--|
| DCV accuracy | 0.25% |
| Speed | 100 readings/s |
| Measurement functions | DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency, capacitance, temperature, diode, continuity tests |
| Type of connectivity | IR-USB and Bluetooth |

Ordering information

- U1251B digital multimeter
- U1252B digital multimeter
- U1253B digital multimeter

Each U1251B/U1252B includes:

- Four 1.5 V AAA alkaline batteries
- Certificate of calibration
- Test probe leads (4-mm tips)
- Quick start guide
- Free test data (Option UK6)

Each U1251B/U1252B includes:

- 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 number 5989-5509EN

Shaped to fit, tailored to perform, built to last

U1270 Series handheld digital multimeters



Key features

- OLED display with 2000:1 contrast ratio and 160 degree viewing angle*
- Measure up to 1000 V AC/DC and 10 A (20 A for 30 s)
- Down to -40 °C operating temperature*
- Water and dust resistance (IP 54)
- CAT III 1000 V / CAT IV 600 V *with U1273AX

Bluetooth wireless connectivity (optional U1177A Infrared (IR)-to-Bluetooth Adapter required)



- Peak detect records transients as fast as 250 μ s
- Low Pass Filter (LPF) removes unwanted high frequency signals
- Z_{LOW}^1 provides both high and low impedance modes to eliminate stray voltages
- OLED display ensures clear and distinct display readings
- Smart Ω^1 removes residual voltage of up to 1000 mV
- Auto diode¹ automatically determines diode polarity
- Temperature measurement: J type thermocouple -210 to 1200° C¹, K type thermocouple -200 to 1732° C
- AC + DC¹ capability
- Large knob for ease of use

1. U1272A, U1273A and U1273AX only

Front panel



- Hang hole
- Probe holder/storage
- IR-USB connectivity with optional IR-USB cable
- Easy fuse and battery access from battery cover beneath the stand
- Slim, ergonomic design for better grip

Back panel

Key specifications

| | |
|-----------------------|---|
| DCV accuracy | 0.05% |
| Speed | 7 readings/s |
| Measurement functions | DCV, DCI, ACV, ACI, 2-wire resistance, frequency, capacitance, continuity, diode test |
| Type of connectivity | IR-USB and Bluetooth |

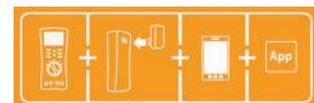
Ordering information

- U1271A digital multimeter
- U1272A digital multimeter
- U1273A digital multimeter
- U1273AX digital multimeter

Each handheld comes with:

- Standard test leads
- Test probes with 4-mm tips
- K-type thermocouple and adapter
- 4 x AAA alkaline batteries (for U1271A, U1272A, U1273A)
- 4 x AAA lithium batteries (for U1273AX)
- Certificate of calibration
- UK 6 (test report)
- Quick start guide

Technical datasheet:
Literature number 5990-6425EN



Calibrate and 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
- Data logging to PC with optional



Key specifications

| | |
|----------------------|--|
| DCV accuracy | 0.003% |
| Reading speed | 3 readings/s |
| Measurement | DCV, ACV, DCI, ACI, 2-wire resistance, temperature, frequency, diode test, continuity, pulse width, duty cycle |
| Type of connectivity | IR-USB |

Technical datasheet:

Literature number 5990-3459EN

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

A bench that fits into your bag

U2741A 5½ digit USB modular multimeter



Key features

- Up to 300 VDC with 5½ digit resolution
- Wide measurement ranges: 100 mVDC to 300 VDC, 10 mA to 2 A
- Compatibility with high-speed USB 2.0, USBTMC-USB488 standard
- Standalone and modular capabilities

Bundled software -
Keysight Measurement
Manager (AMM)



View voltage
along with time
using dual display
mode



Key specifications

| | |
|----------------------|---|
| DCV accuracy | 0.02% |
| Reading speed - DCV | 100 readings/s |
| Measurement | DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency, temperature, diode, continuity tests |
| Type of connectivity | USB 2.0 |

Technical datasheet:

Literature number 5991-0042EN

Ordering information

U2741A digital multimeter

Each U2741A includes:

- 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)
- Keysight USB modular products quick start guide
- Keysight Measurement Manager quick reference card
- Certificate of calibration
- Keysight USB modular products reference CD-ROM
- Keysight automation-ready CD-ROM (contains the Keysight IO Libraries Suite)

Challenge the boundaries of test

M9181A/M9182A/M9183A PXI 6½ digit multimeters



| Model | Description |
|--------|--|
| M9181A | PXI digital multimeter, 6½ digit, basic features |
| M9182A | PXI-H digital multimeter, 6½ digit, high performance |
| M9183A | PXI-H digital multimeter, 6½ digit, enhanced performance |



Comparison of Keysight PXI DMM models

| | M9181A | M9182A | M9183A |
|--|--|--|--|
| Resolution | | 6½ digits | |
| Maximum reading rate @ 4½ digits | 150 readings/s | 4,500 readings/s | 15,000 readings/s |
| Maximum transactional speed (single reading interval time) | 6.7 ms | 222 µs | 66 µs |
| Measurements and functions | DCV, DCI, True RMS ACV and ACI, 2- and 4-wire resistance | All M9181A measurements, plus frequency/period, temperature, and capacitance | All M9182A measurements plus duty cycle, counter/totalizer, DC source, and extended measurement ranges |
| Basic 1 year DCV accuracy | 0.009% | 0.004% | 0.004% |
| Floating isolation (CAT II) | Up to 240 V | Up to 300 V | Up to 300 V |
| Triggering | Immediate | Immediate, analog level, programmable pre/post triggering, PXI trigger bus | |
| Reading storage | none | Circular buffer, 80 readings | |
| Connector capability | cPCI, PXI-1 | cPCI, PXI-H, PXI-1 | |
| Software | | | |
| Drivers | IVI-C, IVI-COM, LabVIEW, MATLAB | | |
| Supported software development environments | Visual Studio® (VB.NET, C#, C/C++), VEE, LabVIEW, LabWindows/CVI, MATLAB | | |
| Included GUI | Soft front panel | | |
| Application code examples | C/C++, Visual Basic | | |

M9181A Technical datasheet and flyer:

Literature number 5990-9035EN (DS)

Literature number 5990-9024EN (FL)

M9182A and M9183A Technical datasheet and flyer:

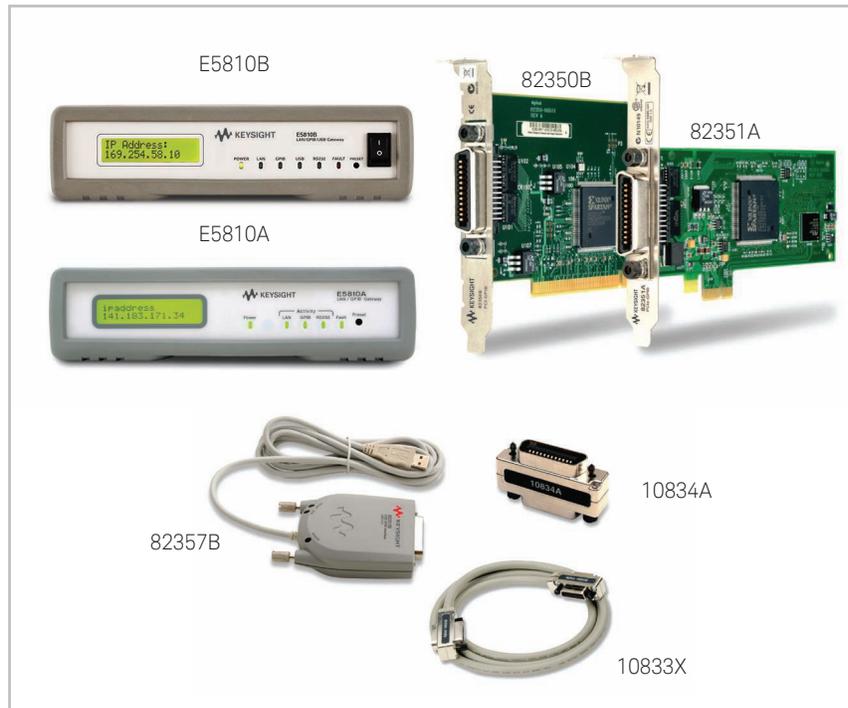
Literature number 5990-7580EN (DS)

Literature number 5990-6550EN (FL)

Linking up your instruments to the PC

Keysight GPIB and Instrument Control Products helps connect your instruments to PC easily, reliably and affordably. From legendary GPIB cables to the one-box connectivity gateway, see how each provides seamless integration of your instrument no matter where they are placed in your system.

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The Digital Multimeter (DMM) Connectivity Utility lets you easily control, capture and view the Keysight DMM's on your bench with a single click. This is a free download, and replaces Keysight Intuilink connectivity software for Digital Multimeters.

www.keysight.com/find/DMMutilitysoftware



It's easy to control, capture data, and view your DMMs from anywhere.

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www.axistandard.org

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www.lxistandard.org

LAN eXtensions for Instruments puts the power of Ethernet and the Web inside your test systems. Keysight is a founding member of the LXI consortium.



www.pxisa.org

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