Digital Multimeters
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<td>U3401A/U3402A</td>
<td>Benchtop DMM, dual display</td>
<td>4½ (U3401A) 5½ (U3402A)</td>
<td>N/A</td>
<td>0.0120%</td>
<td>DCV, ACV, DCI, ACI, 2-wire resistance (4-wire on U3402A), frequency, continuity, and diode</td>
<td>N/A</td>
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<tr>
<td>U3606A/U3606B</td>
<td>5.5-digit DMM with built-in 30 W power supply</td>
<td>5½</td>
<td>26</td>
<td>0.0250%</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, continuity, diode, and capacitance</td>
<td>USB 2.0, GPIB</td>
<td>5</td>
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<tr>
<td>34450A</td>
<td>5.5 digit bench digital multimeter</td>
<td>5½</td>
<td>190</td>
<td>0.0150%</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, continuity, diode, capacitance, and temperature</td>
<td>USB 2.0, Serial Interface (RS-232), GPIB BenchVue software enabled (page 25)</td>
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<tr>
<td>34460A/34461A</td>
<td>Bench/System DMM, graphical color dual-line display with histogram and trend charts</td>
<td>6½</td>
<td>300/1000</td>
<td>0.0075/0.0035%</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, continuity, diode, temperature, capacitance, DC ratio</td>
<td>USB, LAN/LXI Core, GPIB, BenchVue software enabled (page 25)</td>
<td>7</td>
</tr>
<tr>
<td>34465A</td>
<td>Bench/System DMM</td>
<td>6½</td>
<td>50,000</td>
<td>0.0030%</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire, resistance, frequency, period, continuity, diode, temperature, capacitance, DC ratio</td>
<td>USB, LAN/LXI Core, GPIB optional, BenchVue software enabled (page 25)</td>
<td>8</td>
</tr>
<tr>
<td>34470A</td>
<td>Bench/System DMM</td>
<td>7½</td>
<td>50,000</td>
<td>0.0016%</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire, resistance, frequency, period, continuity, diode, temperature, capacitance, DC ratio</td>
<td>USB, LAN/LXI Core, GPIB optional, BenchVue software enabled (page 25)</td>
<td>8</td>
</tr>
<tr>
<td>34401A*</td>
<td>Bench/System DMM</td>
<td>6½</td>
<td>1000</td>
<td>0.0035%</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire, resistance, frequency, period, continuity, and diode.</td>
<td>GPIB, RS-232, DMM Connectivity BenchVue software enabled (page 25)</td>
<td>9</td>
</tr>
<tr>
<td>34410A/34411A*</td>
<td>Bench/System DMM, dual-line display</td>
<td>6½</td>
<td>10,000 (34410A) 50,000 (34411A)</td>
<td>0.0030%</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire, resistance, frequency, period, continuity test, capacitance, temperature</td>
<td>USB, LAN/LXI Core, GPIB, BenchVue software enabled (page 25)</td>
<td>10</td>
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<tr>
<td>34420A</td>
<td>Nanovolt/µΩ meter</td>
<td>7½</td>
<td>250</td>
<td>0.0030%</td>
<td>DCV, DCI, 2- and 4-wire resistance, 2 channel scanning, temperature</td>
<td>GPIB, RS-232, Intuilink software</td>
<td>11</td>
</tr>
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*NOTICE: The 34401A, 34410A, 34411A products will be discontinued December 1, 2016. For migration details visit: www.keysight.com/find/nextgenDMMs
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<th>Model</th>
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<th>Basic measurements</th>
<th>Connectivity &amp; software</th>
<th>Page</th>
</tr>
</thead>
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<tr>
<td>3458A</td>
<td>Bench/System DMM</td>
<td>8½</td>
<td>100000 (@ 4½ digits)</td>
<td>0.0008% (0.0004% optional)</td>
<td>DCV, ACV, DCl, ACI, 2- and 4-wire resistance, frequency, period, and temperature</td>
<td>GPIB</td>
<td>12</td>
</tr>
<tr>
<td>U1177A/U1117A</td>
<td>Infrared (IR)-to-Bluetooth Adapter</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Keysight Mobile Meter</td>
<td>13</td>
</tr>
<tr>
<td>U1190 Series</td>
<td>Handheld DMM, illuminate test area and measure in safer manner</td>
<td>3½</td>
<td>3</td>
<td>0.5%</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, continuity, diode test, capacitance, temperature</td>
<td>N/A</td>
<td>14</td>
</tr>
<tr>
<td>U1210 Series</td>
<td>Handheld clamp meter</td>
<td>3½</td>
<td>7</td>
<td>0.5%</td>
<td>DCV, ACV, DCl, ACI, 2-wire resistance, frequency, continuity, diode test, capacitance, temperature</td>
<td>IR-USB, Bluetooth</td>
<td>15</td>
</tr>
<tr>
<td>U1230 Series</td>
<td>Handheld DMM, Retool your expectations with the Keysight U1230 Series handheld DMM</td>
<td>3½</td>
<td>5</td>
<td>0.5%</td>
<td>DCV, ACV, DCl, ACI, resistance, frequency, continuity, diode test, capacitance, temperature</td>
<td>IR-USB, Bluetooth</td>
<td>16</td>
</tr>
<tr>
<td>U1240B Series</td>
<td>Handheld DMM, Feature-rich and robust DMMs</td>
<td>4</td>
<td>7</td>
<td>0.09%</td>
<td>DCV, DCl, ACV, ACI, 2-wire resistance, frequency, continuity, diode test, switch counter, harmonic ratio, capacitance, temperature, 4-20 mA % scale</td>
<td>IR-USB, Bluetooth</td>
<td>17</td>
</tr>
<tr>
<td>U1240C Series</td>
<td>Handheld DMM, Perform test confidently and efficiently</td>
<td>4½</td>
<td>5</td>
<td>0.09%</td>
<td>DCV, DCl, ACV, ACI, 2-wire resistance, frequency, continuity, diode test, switch counter, harmonic ratio, capacitance, temperature, 4-20 mA % scale</td>
<td>IR-USB, Bluetooth</td>
<td>18</td>
</tr>
<tr>
<td>U1250 Series</td>
<td>Handheld DMM, Versatile, high performance DMMs</td>
<td>4½</td>
<td>7</td>
<td>0.025%</td>
<td>DCV, DCl, ACV, ACI, 2-wire resistance, frequency, continuity, diode test, dB, capacitance, temperature, frequency counter, 4-20 mA % scale</td>
<td>IR-USB, Bluetooth</td>
<td>19</td>
</tr>
<tr>
<td>U1270 Series</td>
<td>Handheld DMM, More functionality in a single tool</td>
<td>4½</td>
<td>7</td>
<td>0.05%</td>
<td>DCV, DCl, ACV, ACI, 2-wire resistance, frequency, continuity, diode test, dB, capacitance, temperature, 4-20 mA % scale</td>
<td>IR-USB, Bluetooth</td>
<td>20</td>
</tr>
<tr>
<td>U1280 Series</td>
<td>Handheld DMM, Trustworthy measurements in the palm of your hand</td>
<td>4½</td>
<td>5</td>
<td>0.025%</td>
<td>DCV, DCl, ACV, ACI, 2-wire resistance, frequency, continuity, diode test, dB, capacitance, temperature, 4-20 mA % scale</td>
<td>IR-USB, Bluetooth</td>
<td>21</td>
</tr>
<tr>
<td>U1401B</td>
<td>Handheld multi-function calibrator/meter Calibrator and DMM in one tool</td>
<td>4½</td>
<td>3</td>
<td>0.003%</td>
<td>DCV, ACV, DCl, ACI, 2-wire resistance, temperature, frequency, diode test, continuity, pulse width, duty cycle</td>
<td>IR-USB</td>
<td>22</td>
</tr>
<tr>
<td>U2741A</td>
<td>USB Modular DMM, Compact, with plug-and-play simplicity</td>
<td>5½</td>
<td>100</td>
<td>0.02%</td>
<td>DCV, ACV, DCl, ACI, 2- and 4-wire resistance, frequency and period, continuity, diode test, temperature</td>
<td>USB 2.0</td>
<td>23</td>
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<tr>
<td>M9181A</td>
<td>PXI DMM - basic features. Best for functional test when there are multiple tests with range or function changes</td>
<td>6½</td>
<td>150</td>
<td>&lt;0.09%</td>
<td>DCV, DCl, ACV, ACI, 2- and 4-wire resistance</td>
<td>PXI modular: IVI-C, IVI-COM, LabVIEW, MATLAB drivers. Signametrics compatible driver is also available</td>
<td>24</td>
</tr>
<tr>
<td>M9182A/M9183A</td>
<td>PXI DMM - enhanced performance models. Best for functional test when there are multiple tests with range or function changes</td>
<td>6½</td>
<td>4,500 for M9182A 15,000 for M9183A</td>
<td>0.004%</td>
<td>All M9181A measurements, plus frequency/period, capacitance, and temperature. M9183A includes duty cycle, counter/totalizer, and DC source</td>
<td>PXI-hybrid module: IVI-C, IVI-COM, LabVIEW, MATLAB drivers. Signametrics compatible driver is also available</td>
<td>24</td>
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</table>

Accessories Compatibility Chart

BenchVue Software
**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

**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

**Key specifications**

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<th>Feature</th>
<th>Specifications</th>
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<tr>
<td>DCV accuracy</td>
<td>0.02%</td>
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<tr>
<td>Reading speed</td>
<td>N/A</td>
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<tr>
<td>Measurement functions</td>
<td>DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency, diode, continuity</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**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 GPIB, 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

Key specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
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<tr>
<td>DCV accuracy</td>
<td>0.015%</td>
</tr>
<tr>
<td>Reading speed</td>
<td>190 readings/s</td>
</tr>
<tr>
<td>Measurement functions</td>
<td>DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency, diode, continuity, capacitance, temperature</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>USB 2.0, Serial Interface (RS-232) and GPIB</td>
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</tbody>
</table>

Ordering information
34450A 5½ 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
- BenchVue software enabled

Technical datasheet:
Literature number 5991-1133EN
The new standard for uncompromising performance in bench and system test
34460A/34461A 6½ digit Truevolt DMMs

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

Key specifications
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.0075/0.0035%</td>
</tr>
<tr>
<td>Reading speed ~ 4½ Digits</td>
<td>300/1000 readings/s</td>
</tr>
<tr>
<td>Measurements</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, diode, continuity, temperature</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>USB, LAN/LXI Core (Option on 34460A, Std on 34461A) GPIB (Optional)</td>
</tr>
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Technical datasheet:
Literature number 5991-1983EN

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
- BenchVue software enabled (see page 25)
The new standard for uncompromising performance in bench and system test

34465A 6½, 34470A 7½ digit performance Truevolt DMMs

Key features

Get more insight quickly

**Truevolt** DMM’s graphical capabilities such as trend and histogram charts offer more insights quickly. Both models also provide a data logging mode for easier trend analysis and a digitizing mode for capturing transients.

Low-current measurements

The ability to measure very low current, 1 µA range with pA resolution, allows you to make measurements on very low power devices.

Maintaining calibration

Auto calibration allows you to compensate for temperature drift so you can maintain measurement accuracy throughout your workday.

Key specifications

<table>
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<th>Specification</th>
<th>34465A 6½ digit</th>
<th>34470A 7½ digit</th>
</tr>
</thead>
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<tr>
<td>DCV accuracy</td>
<td>0.0030/0.0016%</td>
<td></td>
</tr>
<tr>
<td>Reading speed</td>
<td>50,000 readings/s</td>
<td>50,000 readings/s</td>
</tr>
<tr>
<td>Measurements</td>
<td>DCV, ACV, DCl, ACI, 2- and 4-wire resistance, frequency, period, diode, continuity, temperature capacitance, DC ratio</td>
<td></td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>USB, LAN/LXI Core</td>
<td>GPIB (Optional)</td>
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Technical datasheet:
Literature number 5991-1983EN

Ordering information

34465A 6½ digit, performance Truevolt DMM (34410A/11A replacement)
34470A 7½ digit, performance Truevolt DMM

Upgradeable options:
- 3446GPBU – GPIB user installable interface module
- 3446SECU – Enable NISPOM and file security
- 3446DIGU - Enable digitizing and advanced triggering
- 3446MEMU - Enable 2 million readings of memory
- BenchVue software enabled
Uncompromising performance for benchtop and system testing

34401A 6½ digit multimeter (Replaced by 34461A 6½ digit Truevolt multimeter)
NOTICE: The 34401A DMM will be discontinued December 1, 2016.
For migration details visit: www.keysight.com/find/nextgenDMMs

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

BenchVue software enabled
### Affordable yet feature-rich measurement tool

#### 34410A/34411A 6½ digit multimeter

NOTICE: The 34410A/34411A DMMs will be discontinued December 1, 2016. For migration details visit: [www.keysight.com/find/nextgenDMMs](http://www.keysight.com/find/nextgenDMMs)

#### 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>34410A</th>
<th>34411A</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.0030%</td>
<td></td>
</tr>
<tr>
<td>Reading speed – DCV</td>
<td>34410A 10,000 readings/s</td>
<td>34411A 50,000 readings/s</td>
</tr>
<tr>
<td>Measurements</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire resistance, continuity, diode, capacitance, temperature</td>
<td></td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>GPIB, USB 2.0, LAN (LXI Core)</td>
<td></td>
</tr>
</tbody>
</table>

#### 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

BenchVue software enabled (see page 25)

#### Technical datasheet:

Literature number 5989-3738EN
Nanovolt performance at a micro-volt price
34420A 7½ digit multimeter

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

Key specifications

<table>
<thead>
<tr>
<th>DCV accuracy</th>
<th>0.0030%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading speed – DCV</td>
<td>250 readings/s</td>
</tr>
<tr>
<td>Measurements</td>
<td>DCV, 2- and 4-wire resistance, temperature</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>GPIB, RS-232</td>
</tr>
</tbody>
</table>

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

Key specifications

<table>
<thead>
<tr>
<th>DCV accuracy</th>
<th>0.0008% (Optional 0.0004%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading speed DVC</td>
<td>Up to 100,000 readings/second (41/2 digits)</td>
</tr>
<tr>
<td>Measurements</td>
<td>DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>GPIB</td>
</tr>
</tbody>
</table>

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

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
Go further with Keysight handheld digital multimeters

Keysight Remote Link Solution

The remote link is Keysight Technologies, Inc. next generation wireless connectivity. With the new U1117A Infrared (IR)-to-Bluetooth® adapter and U1115A remote logging display, you can safely measure, view and log test measurements with an extended range of up to 100 meters. You can now log and monitor data on more display devices such as iOS / Android-based smart devices or on a Windows-based PC. By simply attaching the U1177A / U1117A IR-to-Bluetooth adapter to the IR port of a Keysight handheld meter, you'll get instant wireless Bluetooth connection setup.

Key features

- Extended measurement distance of up to 100 meters
- View readings of up to four handheld meters simultaneously
- Compatible across all existing Keysight U1200 series handheld meters
- 60,000 points interval logging¹
- Download logged data to a PC via Bluetooth connection¹
- Micro USB external power port¹
- Indoor and outdoor viewing modes¹

1. U1115A

[Image: Keysight U1177A Infrared (IR)-to-Bluetooth adapter]

[Image: Keysight wireless remote connectivity solution]
Ergonomically designed for safer measurements
U1190 Series handheld clamp meters

Key features

- Vsense to perform non-contact voltage detection
- Built-in LED flashlight to illuminate test area
- Current measurement up to 600 A
- Digital multimeter (DMM) with Resistance, Capacitance, DCμA, ACμA, Continuity and Diode test measurements
- CAT III 600 V / CAT IV 300 V overvoltage protection

Key specifications

<table>
<thead>
<tr>
<th>Specification</th>
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<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.5+3</td>
</tr>
<tr>
<td>Reading speed</td>
<td>3 readings/s</td>
</tr>
<tr>
<td>Measurement functions</td>
<td>DCV, ACV, DCI, ACI, resistance, capacitance, diode test, temperature, frequency, continuity</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

1. Only for U1192A, U1193A and U1194A
2. Only for U1193A and U1194A
3. Only for U1194A
**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 overvoltage protection
- 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)*

**Key specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.50%</td>
</tr>
<tr>
<td>Reading speed</td>
<td>7 readings/s</td>
</tr>
<tr>
<td>Measurements</td>
<td>DCV, ACV, DCI, ACI, 2-wire resistance, capacitance, temperature, frequency, diode test, continuity</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>IR-USB and Bluetooth</td>
</tr>
</tbody>
</table>

**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)

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

Technical datasheet:
Literature number 5990-7550EN

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
Check more, fix more, spend less
U1240B 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 overvoltage protection

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

Key specifications
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.09%</td>
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<tr>
<td>Reading speed</td>
<td>7 readings/s</td>
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<tr>
<td>Measurement functions</td>
<td>DCV, ACV, DCI, ACI, 2-wire resistance, frequency, capacitance, temperature, diode, continuity tests</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>IR-USB and Bluetooth</td>
</tr>
</tbody>
</table>

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
Perform test confidently and efficiently over a longer period of time!
U1240C Series handheld digital multimeters

Key features

- 10,000-count dual display
- Up to 0.09% basic DCV accuracy
- Longer battery life up to 400 hours
- Certified to IP 67 for water and dust protection and tested to withstand a 3-meter (10-ft) drop

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

10,000-count display

Data logging capability

Harmonic ratio

$Z_{\text{LOW}}$ (Low input impedance)

Dust and water protection with IP 67 ratings

Vsense red LED indicator for non-contact voltage detection

Easy viewing with display backlight or built-in flashlight

Broad range of measurement functions: voltage, current, frequency, capacitance, resistance, continuity, diode test and temperature

CAT IV 600 V and CAT III 1000 V over-voltage protection

T1 – T2 differential temperature measurement

Key specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.09%</td>
</tr>
<tr>
<td>Reading speed</td>
<td>5 readings/s</td>
</tr>
<tr>
<td>Measurement functions</td>
<td>Voltage, current, frequency, capacitance, resistance, continuity, diode test and temperature</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>IR-USB and Bluetooth</td>
</tr>
</tbody>
</table>

Ordering information

U1241C digital multimeter
U1242C digital multimeter

Each handheld comes with:
- Test leads (red and black)
- Infrared (IR)-to-USB cable
- Four 1.5 V AAA alkaline batteries
- Quick start guide
- Certificate of calibration

Technical datasheet:
Literature number 5992-0848EN
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

Key specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>U1251B</th>
<th>U1252B/U1253B</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.25%</td>
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<tr>
<td>Speed</td>
<td>100 readings/s</td>
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<tr>
<td>Measurement functions</td>
<td>DCV, ACV, DCI, ACI, 2-wire</td>
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<tr>
<td></td>
<td>resistance, frequency, capacitance, temperature, diode, continuity tests</td>
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</tr>
<tr>
<td>Type of connectivity</td>
<td>IR-USB and Bluetooth</td>
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</tbody>
</table>

Ordering information
U1251B digital multimeter
U1252B digital multimeter
U1253B digital multimeter

Each U1251B includes:
- One 9V size alkaline battery
- Certificate of calibration
- Test probe leads (4-mm tips)
- Quick start guide
- Free test data (Option UK6)

Each U1252B/U1253B includes:
- One 9V size rechargeable Ni-MH battery
- 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 overvoltage protection

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
- 4 x AAA lithium batteries
- Certificate of calibration
- UK 6 (test report)
- Quick start guide

Technical datasheet:
Literature number 5990-6425EN
Trustworthy measurements in the palm of your hand!
U1280 Series handheld digital multimeters

Key features
- 60,000-count dual display
- Up to 0.025% basic DCV accuracy
- Longer battery life up to 800 hours

- Certified to IP 67 for water and dust protection and tested to withstand a 3-meter (10-ft) drop
- (U1282A only) Vsense for non-contact voltage detection, square wave output, low pass filter, frequency counter

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

Key specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.025%</td>
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<tr>
<td>Speed</td>
<td>5 readings/s</td>
</tr>
<tr>
<td>Measurement functions</td>
<td>Voltage, current, frequency, capacitance, resistance, continuity, diode test and temperature</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>IR-USB and Bluetooth</td>
</tr>
</tbody>
</table>

Ordering information
U1281A digital multimeter
U1282A digital multimeter

Each handheld comes with:
- Test leads (red and black)
- Infrared (IR)-to-USB cable
- Four 1.5 V AA alkaline batteries
- Quick Start Guide
- Certificate of calibration

Technical datasheet:
Literature number 5992-0847EN
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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.003%</td>
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<tr>
<td>Reading speed</td>
<td>3 readings/s</td>
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<tr>
<td>Measurement</td>
<td>DCV, ACV, DCI, ACI, 2-wire resistance, temperature, frequency, diode test, continuity, pulse width, duty cycle</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>IR-USB</td>
</tr>
</tbody>
</table>

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 number 5990-3459EN
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

Key specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.02%</td>
</tr>
<tr>
<td>Reading speed - DCV</td>
<td>100 readings/s</td>
</tr>
<tr>
<td>Measurement DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency, temperature, diode, continuity tests</td>
<td></td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>USB 2.0</td>
</tr>
</tbody>
</table>

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)

Technical datasheet:
Literature number 5991-0042EN
Challenge the boundaries of test
M9181A/M9182A/M9183A PXI 6½ digit multimeters

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M9181A</td>
<td>PXI digital multimeter, 6½ digit, basic features</td>
</tr>
<tr>
<td>M9182A</td>
<td>PXI-H digital multimeter, 6½ digit, high performance</td>
</tr>
<tr>
<td>M9183A</td>
<td>PXI-H digital multimeter, 6½ digit, enhanced performance</td>
</tr>
</tbody>
</table>

Comparison of Keysight PXI DMM models

<table>
<thead>
<tr>
<th></th>
<th>M9181A</th>
<th>M9182A</th>
<th>M9183A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>6½ digits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum reading rate @ 4½ digits</td>
<td>150 readings/s</td>
<td>4,500 readings/s</td>
<td>15,000 readings/s</td>
</tr>
<tr>
<td>Maximum transactional speed (single reading interval time)</td>
<td>6.7 ms</td>
<td>222 µs</td>
<td>66 µs</td>
</tr>
<tr>
<td>Measurements and functions</td>
<td>DCV, DCI, True RMS ACV and ACI, 2- and 4-wire resistance</td>
<td>All M9181A measurements, plus frequency/period, temperature, and capacitance</td>
<td>All M9182A measurements plus duty cycle, counter/totalizer, DC source, and extended measurement ranges</td>
</tr>
<tr>
<td>Basic 1 year DCV accuracy</td>
<td>0.009%</td>
<td>0.004%</td>
<td>0.004%</td>
</tr>
<tr>
<td>Floating isolation (CAT II)</td>
<td>Up to 240 V</td>
<td>Up to 300 V</td>
<td>Up to 300 V</td>
</tr>
<tr>
<td>Triggering</td>
<td>Immediate</td>
<td>Immediate, analog level, programmable pre/post triggering, PXI trigger bus</td>
<td></td>
</tr>
<tr>
<td>Reading storage</td>
<td>none</td>
<td>Circular buffer, 80 readings</td>
<td></td>
</tr>
<tr>
<td>Connector capability</td>
<td>cPCI, PXI-1</td>
<td>cPCI, PXI-H, PXI-1</td>
<td></td>
</tr>
</tbody>
</table>

Software

<table>
<thead>
<tr>
<th>Drivers</th>
<th>IVI-C, IVI-COM, LabVIEW, MATLAB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supported software development environments</td>
<td>Visual Studio (VB.NET, C#, C/C++), VEE, LabVIEW, LabWindows/CVI, MATLAB</td>
</tr>
<tr>
<td>Included GUI</td>
<td>Soft front panel</td>
</tr>
<tr>
<td>Application code examples</td>
<td>C/C++, Visual Basic</td>
</tr>
</tbody>
</table>

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)
## Accessories Compatibility Chart

<table>
<thead>
<tr>
<th>Ordering number</th>
<th>Description</th>
<th>Handheld clamp meters</th>
<th>Handheld DMMs</th>
<th>Bench DMMs</th>
<th>Modular DMM</th>
<th>Handheld calibrator/meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>-----------------</td>
<td>-------------</td>
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<td>---------------</td>
<td>------------</td>
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<td>--------------------------</td>
</tr>
<tr>
<td>34137A</td>
<td>Deluxe test lead set</td>
<td></td>
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<tr>
<td>34190A</td>
<td>Rackmount kit</td>
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<tr>
<td>34191A</td>
<td>2U dual flange kit</td>
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<tr>
<td>34196A</td>
<td>Dual lock link kit</td>
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<tr>
<td>34307A</td>
<td>Thermocouple kit</td>
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<td>34308A</td>
<td>Thermistor kit</td>
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<tr>
<td>E900A-100</td>
<td>Test lead kit</td>
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<tr>
<td>U1161A</td>
<td>Extended test lead kit</td>
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<tr>
<td>U1168B</td>
<td>Standard test lead kit</td>
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<tr>
<td>U1180A</td>
<td>Thermocouple adapter+lead kit (for U1242B only) (for U1252/53B only) (for U1272A/73/73AX)</td>
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<tr>
<td>U8201A</td>
<td>Combo test lead kit</td>
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<td>U8202A</td>
<td>Electronic test lead kit</td>
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<td>Y1133A</td>
<td>Low-thermal external DMM scanning kit</td>
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<tr>
<td>11059A</td>
<td>Kelvin prob set</td>
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<td>11060A</td>
<td>Surface mount device probe</td>
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<td>11062A</td>
<td>Kelvin clip set</td>
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<td>34103A</td>
<td>Low thermal shorting plug</td>
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<td>34104A</td>
<td>Low thermal input connector</td>
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<td>34131A</td>
<td>Transit case</td>
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<tr>
<td>34133A</td>
<td>Precision electronic test leads</td>
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<tr>
<td>34134A</td>
<td>DC coupled current probe</td>
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<td>34136A</td>
<td>High voltage probe</td>
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<td>34138A</td>
<td>Test lead set</td>
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<tr>
<td>34171B</td>
<td>Input terminal block</td>
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<tr>
<td>34172B</td>
<td>Calibration short</td>
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<tr>
<td>34330A</td>
<td>30 A current shunt</td>
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<tr>
<td>E2308A</td>
<td>Thermister temperature probe</td>
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<tr>
<td>U1115A</td>
<td>Remote logging display</td>
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<td>U1117A</td>
<td>Infrared (IR)-to-Bluetooth adapter</td>
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<tr>
<td>U1162A</td>
<td>Alligator clips</td>
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<td>U1163A</td>
<td>SMT grabbers</td>
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<td>U1164A</td>
<td>Fine-tip test probes</td>
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<td>U1169A</td>
<td>Test probe leads</td>
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<tr>
<td>U1176A</td>
<td>Probe clip light</td>
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<td>U1117A</td>
<td>Infrared (IR)-to-Bluetooth adapter</td>
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<td>U1580A</td>
<td>DMM terminal test lead set</td>
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<tr>
<td>U1583B</td>
<td>AC current clamp</td>
<td></td>
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</tbody>
</table>

Note: The table above lists the compatibility of various accessories with different series of DMMs. The symbols represent compatibility; a checkmark (✓) indicates compatibility, and an empty cell signifies incompatibility.
## Accessories Compatibility Chart

<table>
<thead>
<tr>
<th>Ordering number</th>
<th>Description</th>
<th>Handheld clamp meters</th>
<th>Handheld DMMs</th>
<th>Bench DMMs</th>
<th>Modular DMM</th>
<th>PXI modular DMMs</th>
<th>Handheld calibrator</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>UT210 Series</td>
<td>UT230 Series</td>
<td>UT240B Series</td>
<td>UT250 Series</td>
<td>UT250 Series</td>
<td>UT270 Series</td>
</tr>
<tr>
<td>U1179A</td>
<td>IR connectivity/bracket</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td>U1181A</td>
<td>Immersion temperature probe (for U1212A/13A only)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
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<tr>
<td>U1182A</td>
<td>Industrial surface temperature probe (for U1212A/13A only)</td>
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<td>□</td>
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<tr>
<td>U1183A</td>
<td>Air temperature probe (for U1212A/13A only)</td>
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<td>□</td>
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<tr>
<td>U1184A</td>
<td>Temperature probe adapter (for U1212A/13A only)</td>
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<td>□</td>
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<tr>
<td>U1185A</td>
<td>Thermocouple (J-type) and temperature probe adapter (for U1242A only)</td>
<td>□</td>
<td>□</td>
<td>□</td>
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<tr>
<td>U1186A</td>
<td>Thermocouple (K-type) and temperature probe adapter (for U1212A/13A only)</td>
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<tr>
<td>U1586B</td>
<td>Temperature module (for U1233A only)</td>
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<td>U5404A</td>
<td>Remote test probe for UT1280 Series</td>
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<tr>
<td></td>
<td>Carry case/ hanging kit/brackets</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>34131A</td>
<td>Transit case</td>
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<td>□</td>
<td>□</td>
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<tr>
<td>34161A</td>
<td>Accessory pouch</td>
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<tr>
<td>34162A</td>
<td>Accessory pouch</td>
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<tr>
<td>34398A</td>
<td>RS-232 cable, 9-pin (F) to 9-pin (F)</td>
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<tr>
<td>82350A</td>
<td>Interface card, high-performance PCI to GPIB</td>
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<td>□</td>
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<td>82357B</td>
<td>USB/GPIB interface</td>
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<td>U1171A</td>
<td>Magnetic hanging kit</td>
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<td>U1172A</td>
<td>Transit case (aluminum-clad)</td>
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<td>U1174A</td>
<td>Soft carrying case</td>
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<td>U1175A</td>
<td>Soft carrying case</td>
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<td>U1178A</td>
<td>Soft carrying case</td>
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<td>U1594A</td>
<td>Hard carrying case</td>
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<td>U1595A</td>
<td>Rugged carrying case</td>
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<tr>
<td></td>
<td>Power/cables/interface card</td>
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<td>10833A/B/C/D/F/G</td>
<td>GPIB cable</td>
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<td>34102A</td>
<td>Low thermal input cable</td>
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<td>U1170A</td>
<td>Battery charger adapter (for U1250/52/53B only)</td>
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<td>U1173A</td>
<td>IR-to-USB cable</td>
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</tr>
</tbody>
</table>

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- Adapter (U1177A, U1117A) and 5x IR-USB cable (U1173B)
- Meter view (live measurements) and logger view (graph with zoom and pan) mode
- Manage multi-session data logging within the software and export the data to other software (Microsoft Excel)

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1. One hour limit in no cost version.
2. For the U1240B Series, you also need to purchase the U1179A IR connectivity bracket to enable IR connectivity.
3. Only allows one connection at a time.

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