Keysight Technologies
Digital Multimeters
<table>
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<tr>
<th>Model</th>
<th>Description</th>
<th>Digits of resolution</th>
<th>Measurement speed (reading/s at 4½ digits)</th>
<th>Basic 1-yr DCV accuracy</th>
<th>Basic measurements</th>
<th>Connectivity &amp; software</th>
<th>Page</th>
</tr>
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<tbody>
<tr>
<td>U3401A/U3402A</td>
<td>Benchtop DMM, dual display Elegantly simple and affordable DMMs with basic and good capabilities</td>
<td>4½ (U3401A) 5½ (U3402A)</td>
<td>N/A</td>
<td>0.0120%</td>
<td>DCV, ACV, DCl, ACI, 2- and 4-wire resistance, frequency, continuity, diode, and capacitance</td>
<td>N/A</td>
<td>4</td>
</tr>
<tr>
<td>U3606A/U3606B</td>
<td>5.5-digit DMM with built-in 30 W power supply Halves bench/rack-space need for two instruments</td>
<td>5½</td>
<td>26</td>
<td>0.0250%</td>
<td>DCV, ACV, DCl, ACI, 2- and 4-wire resistance, frequency, continuity, diode, and capacitance</td>
<td>USB 2.0, GPIB</td>
<td>5</td>
</tr>
<tr>
<td>34450A</td>
<td>5.5 digit bench digital multimeter OLED dual display</td>
<td>5½</td>
<td>190</td>
<td>0.0150%</td>
<td>DCV, ACV, DCl, 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</td>
<td>6</td>
</tr>
<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, DCl, ACI, 2- and 4-wire resistance, frequency, period, continuity, diode, capacitance, and temperature</td>
<td>USB, LAN/LXI Core, GPIB, BenchVue software enabled</td>
<td>7</td>
</tr>
<tr>
<td>34465A</td>
<td>Bench/System DMM Includes 34461A features plus data logging, digitizing and auto calibration</td>
<td>6½</td>
<td>50,000</td>
<td>0.0030%</td>
<td>DCV, ACV, DCl, ACI, 2- and 4-wire resistance, frequency, period, continuity, diode, capacitance, and temperature</td>
<td>USB, LAN/LXI Core, GPIB optional, BenchVue software enabled</td>
<td>8</td>
</tr>
<tr>
<td>34470A</td>
<td>Bench/System DMM Includes 34461A features plus data logging, digitizing and auto calibration</td>
<td>7½</td>
<td>50,000</td>
<td>0.0016%</td>
<td>DCV, ACV, DCl, ACI, 2- and 4-wire resistance, frequency, period, continuity, diode, capacitance, and temperature</td>
<td>USB, LAN/LXI Core, GPIB optional, BenchVue software enabled</td>
<td>8</td>
</tr>
<tr>
<td>34401A</td>
<td>Bench/System DMM Industry standard for accuracy, speed, measurement ease and versatility</td>
<td>6½</td>
<td>1000</td>
<td>0.0035%</td>
<td>DCV, ACV, DCl, ACI, 2- and 4-wire resistance, frequency, period, continuity, and diode.</td>
<td>USB, LAN/LXI Core, GPIB optional, RS-232, DMM Connectivity, BenchVue software enabled</td>
<td>9</td>
</tr>
<tr>
<td>34410A/34411A</td>
<td>Bench/System DMM, dual-line display Highest through-put of benchtop DMMs</td>
<td>6½</td>
<td>10,000 (34410A) 50,000 (34411A)</td>
<td>0.0030%</td>
<td>DCV, ACV, DCl, ACI, 2- and 4-wire resistance, frequency, period, continuity test, capacitance, temperature</td>
<td>USB, LAN/LXI Core, GPIB, BenchVue software enabled</td>
<td>10</td>
</tr>
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<th>Basic measurements</th>
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</thead>
<tbody>
<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>
<tr>
<td>3458A</td>
<td>Bench/System DMM</td>
<td>8½</td>
<td>1000000 (@ 4½ digits)</td>
<td>0.0008% (0.0004% optional)</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, and temperature</td>
<td>GPIB</td>
<td>12</td>
</tr>
<tr>
<td>U1177A</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</td>
<td>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, capacitance, temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>U1210 Series</td>
<td>Handheld clamp meter</td>
<td>For convenient high current measurements</td>
<td>3½</td>
<td>7</td>
<td>0.5%</td>
<td>DCV, ACV, DCI, ACI, 2-wire resistance, frequency, continuity, diode test, capacitance, temperature</td>
<td>IR-USB, Bluetooth</td>
</tr>
<tr>
<td>U1230 Series</td>
<td>Handheld DMM</td>
<td>Retool your expectations with the Keysight U1230 Series handheld DMM</td>
<td>3½</td>
<td>5</td>
<td>0.5%</td>
<td>DCV, ACV, DCI, ACI, resistance, frequency, continuity, diode test, capacitance, temperature</td>
<td>IR-USB, Bluetooth</td>
</tr>
<tr>
<td>U1240 Series</td>
<td>Handheld DMM</td>
<td>Feature-rich and robust DMMs</td>
<td>4</td>
<td>7</td>
<td>0.09%</td>
<td>DCV, DCI, 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>
</tr>
<tr>
<td>U1250 Series</td>
<td>Handheld DMM</td>
<td>Versatile, high performance DMMs</td>
<td>4½</td>
<td>7</td>
<td>0.025%</td>
<td>DCV, DCI, ACV, ACI, 2-wire resistance, frequency, continuity, diode test, dB, capacitance, temperature, frequency counter, 4-20 mA % scale</td>
<td>IR-USB, Bluetooth</td>
</tr>
<tr>
<td>U1270 Series</td>
<td>Handheld DMM</td>
<td>More functionality in a single tool</td>
<td>4½</td>
<td>7</td>
<td>0.05%</td>
<td>DCV, DCI, ACV, ACI, 2-wire resistance, frequency, continuity, diode test, dB, capacitance, temperature, 4-20 mA % scale</td>
<td>IR-USB, Bluetooth</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, ADI, DCI, ACI, 2-wire resistance, temperature, frequency, diode test, continuity, pulse width, duty cycle</td>
<td>IR-USB</td>
<td>20</td>
</tr>
<tr>
<td>U2741A</td>
<td>USB Modular DMM</td>
<td>5½</td>
<td>100</td>
<td>0.02%</td>
<td>DCV, DCI, ACI, 2- and 4-wire resistance, frequency and period, continuity, diode test, temperature</td>
<td>USB 2.0</td>
<td>21</td>
</tr>
<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>0.009%</td>
<td>DCV, DCI, ACI, ACI, 2- and 4-wire resistance</td>
<td>PXI module; IVI-C, IVI-COM, LabVIEW, MATLAB drivers. Signametrics compatible driver is also available</td>
<td>22</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>.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>22</td>
</tr>
</tbody>
</table>

Accessories compatibility chart
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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.02%</td>
</tr>
<tr>
<td>Reading speed</td>
<td>N/A</td>
</tr>
<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>

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
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.025%</td>
</tr>
<tr>
<td>Reading speed</td>
<td>26 readings/second</td>
</tr>
<tr>
<td>Measurement functions</td>
<td>DCV, ACV, DCI, ACI, 2-wire and 4-wire resistance, frequency, diode, continuity, and capacitance</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>GPIB, USB 2.0</td>
</tr>
</tbody>
</table>

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>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<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>
</tr>
</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 (see page 25)
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>34460A/34461A</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.0075/0.0035%</td>
</tr>
<tr>
<td>Reading speed</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>
</tbody>
</table>

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>
<thead>
<tr>
<th>Specification</th>
<th>DCV accuracy</th>
<th>Reading speed</th>
<th>Measurements</th>
<th>Type of connectivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.0030/0.0016%</td>
<td>50,000 readings/s</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, diode, continuity, temperature capacitance, DC ratio</td>
<td>USB, LAN/LXI Core, GPIB (optional)</td>
</tr>
<tr>
<td>Reading speed</td>
<td>6½ Digits</td>
<td>50,000 readings/s</td>
<td>DCV, ACV, DCI, ACI, 2- and 4-wire resistance, frequency, period, diode, continuity, temperature capacitance, DC ratio</td>
<td>USB, LAN/LXI Core, GPIB (optional)</td>
</tr>
</tbody>
</table>

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 (see page 25)

Technical datasheet:
Literature number 5991-1983EN
Uncompromising performance for benchtop and system testing

34401A 6½ digit multimeter (Replaced by 34461A 6½ 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

BenchVue software enabled (see page 25)
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

<table>
<thead>
<tr>
<th>Specification</th>
<th>34410A 6½ digit high-performance DMM</th>
<th>34411A 6½ digit enhanced-performance DMM</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.0030%</td>
<td></td>
</tr>
<tr>
<td>Reading speed DCV</td>
<td>10,000 readings/s</td>
<td>50,000 readings/s 4½ digit direct to PC</td>
</tr>
<tr>
<td>Measurements DCV, ACV, DCI, ACI, 2- and 4-wire resistance, continuity, diode, capacitance, temperature</td>
<td></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)
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>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.0030%</td>
</tr>
<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>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.0008% (Optional 0.0004%)</td>
</tr>
<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
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, DCμA³, ACμA³, 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

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
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)

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)

Key specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.5%+2</td>
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<tr>
<td>Reading speed</td>
<td>5 readings/s</td>
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<tr>
<td>Measurement functions</td>
<td>DCV, ACV, ACI, DCI, diode test, capacitance, resistance, temperature*, frequency, continuity test</td>
</tr>
<tr>
<td>Type of connectivity</td>
<td>IR-USB and Bluetooth</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCV accuracy</td>
<td>0.09%</td>
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<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
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)

Key specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</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 and 4-wire resistance, frequency, capacitance, temperature, diode, continuity tests</td>
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<tr>
<td>Type of connectivity</td>
<td>IR-USB and Bluetooth</td>
</tr>
</tbody>
</table>

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)

Key specifications
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
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<td>DCV accuracy</td>
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<td>Speed</td>
<td>7 readings/s</td>
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<tr>
<td>Measurement functions</td>
<td>DCV, DCI, ACV, ACI, 2-wire resistance, frequency, capacitance, continuity, diode test</td>
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<tr>
<td>Type of connectivity</td>
<td>IR-USB and Bluetooth</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<td>DCV accuracy</td>
<td>0.003%</td>
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<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>
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<tr>
<td>Type of connectivity</td>
<td>IR-USB</td>
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</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

Bundled software - Keysight Measurement Manager (AMM)

View voltage along with time using dual display mode

Key specifications

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

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<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>
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</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>
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</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>
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<tr>
<td>Maximum transactional speed (single reading interval time)</td>
<td>6.7 ms</td>
<td>222 µs</td>
<td>66 µs</td>
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<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>
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<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>
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<tr>
<td>Triggering</td>
<td>Immediate</td>
<td>Immediate, analog level, programmable pre/post triggering, PXI trigger bus</td>
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<tr>
<td>Reading storage</td>
<td>none</td>
<td>Circular buffer, 80 readings</td>
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</tr>
<tr>
<td>Connector capability</td>
<td>cPCI, PXI-1</td>
<td>cPCI, PXI-H, PXI-1</td>
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</tr>
</tbody>
</table>

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)
<table>
<thead>
<tr>
<th>Ordering number</th>
<th>Description</th>
<th>Handheld DMMs</th>
<th>Handheld DMMs</th>
<th>Bench DMMs</th>
<th>Modular DMM</th>
<th>Handheld calibrator/meter</th>
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<tr>
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<td>U1210 Series</td>
<td>U1210 Series</td>
<td>U1240A</td>
<td>U1250 Series</td>
<td>U1270 Series</td>
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<td>U1220 Series</td>
<td>U1220 Series</td>
<td>U3401A</td>
<td>U3410A</td>
<td>U34401A</td>
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<td>U1240 Series</td>
<td>U1240 Series</td>
<td>U3402A</td>
<td>U3411A</td>
<td>U34410A</td>
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<td>U1250 Series</td>
<td>U1250 Series</td>
<td>U3441A</td>
<td>U3412A</td>
<td>U34460A/61A</td>
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<td>U1270 Series</td>
<td>U1270 Series</td>
<td>U34460A/70A</td>
<td>U3458A</td>
<td>U2741A</td>
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<tr>
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<td>U3401A</td>
<td>U3401A</td>
<td>U34460A/70A</td>
<td>U3458A</td>
<td>U401B</td>
</tr>
</tbody>
</table>

**Kits/rack mounts**

- 34137A Deluxe test lead set
- 34190A Rackmount kit
- 34191A 2U dual flange kit
- 34194A Dual lock link kit
- 34307A Thermocouple kit
- 34308A Thermistor kit
- E3600A-100 Test lead kit
- U1161A Extended test lead kit
- U1168A Standard test lead kit
- U1180A Thermocouple adapter+lead kit
  *(for U1242B only)*
  *(for U1252/53B only)*
  *(for U1272A/73/73AX)*
- U8201A Combo test lead kit
- U8202A Electronic test lead kit
- Y1133A Low-thermal external DMM scanning kit

**Probes/leads/clamps/bocks/shunts/connectors**

- T1059A Kelvin prob set
- 11060A Surface mount device probe
- 11062A Kelvin clip set
- 34103A Low thermal shorting plug
- 34104A Low thermal input connector
- 34113A Precision electronic test leads
- 34134A DC coupled current probe
- 34136A High voltage probe
- 34138A Test lead set
- 34171B Input terminal block
- 34172B Calibration short
- 34330A 30 A current shunt
- E2308A Thermister temperature probe
- U1162A Alligator clips
- U1163A SMT grabbers
- U1164A Fine-tip test probes
- U1169A Test probe leads
- U1176A Probe clip light
- U1177A Infrared (IR)-to-Bluetooth adapter
- U1580A DMM terminal test lead set
- U1583B AC current clamp
<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 DMMs</th>
<th>PXI modular DMMs</th>
<th>Handheld calibrator/meter</th>
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<tr>
<td>U1179A</td>
<td>IR connectivity/ bracket</td>
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<td>U1181A</td>
<td>Immersion temperature probe (for U1212A/13A only)</td>
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<td>U1182A</td>
<td>Industrial surface temperature probe (for U1212A/13A only)</td>
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<td>U1183A</td>
<td>Air temperature probe (for U1212A/13A only)</td>
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<td>U1184A</td>
<td>Temperature probe adapter (for U1212A/13A only)</td>
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<td>U1185A</td>
<td>J-type thermocouple and adapter (for U1242A only)</td>
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<td>(for U1252A/53B only)</td>
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<td>(for U1272A/73A/73AX)</td>
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<td>U1186A</td>
<td>K-type thermocouple and adapter (for U1212A/13A only)</td>
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<td>U1588B</td>
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</table>

**Probes/adapters/leads for temperature measurement**

**Carry case/hanging kit/brackets**

<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 DMMs</th>
<th>PXI modular DMMs</th>
<th>Handheld calibrator/meter</th>
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<tbody>
<tr>
<td>34131A</td>
<td>Transit case</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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<tr>
<td>82357B</td>
<td>USB/GPIB interface</td>
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<tr>
<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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<tr>
<td>U1580A</td>
<td>DMM terminal test lead set</td>
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<tr>
<td>U1174A</td>
<td>Soft carrying case</td>
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<tr>
<td>U1175A</td>
<td>Soft carrying case</td>
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<tr>
<td>U1178A</td>
<td>Soft carrying case</td>
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</tbody>
</table>

**Power/cables/interface card**

<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 DMMs</th>
<th>PXI modular DMMs</th>
<th>Handheld calibrator/meter</th>
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<tbody>
<tr>
<td>10833A/B/C/D/F/G</td>
<td>GPIB cable</td>
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<tr>
<td>34102A</td>
<td>Low thermal input cable</td>
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<tr>
<td>U1170A</td>
<td>Battery charger adapter (for U1250/52/53B only)</td>
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<tr>
<td>U1173A</td>
<td>IR-to-USB cable</td>
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</tbody>
</table>
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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- Visualize multiple measurements simultaneously
- Easily log data, screen shots and system state
- Recall past state of your bench to replicate results
- Export measurement data in desired format fast
- Quickly access manuals, drivers, FAQs and videos
- Monitor and control bench from mobile devices

The Digital Multimeter App within BenchVue enables control of digital multimeters to visualize measurements, perform data logging and annotate captured data (included in model BV0000A). Upgrading to the Pro version (model #BV0001A) provides histograms, digitizer capability and unrestricted data logging with limit checking and alerts.

1. One hour limit in no cost version.

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