The Fluke 15B+ and 17B+ digital multimeters are compact, easy to use tools that deliver safe, reliable measurements.

**The right tools for the job**

Your job requires that you have a rugged, reliable and accurate digital multimeter. The new Fluke 15B+ and 17B+ offer everything you need.

**Product highlights**

- **NEW** – CAT III 600 V safety rating
- **NEW** – 50% bigger display with bright white backlight
- **NEW** – Over-voltage indicator (17B+)
- Frequency and temperature measurement (17B+)
- Voltage, resistance, continuity, capacitance
- Input terminal for ac and dc current measurements to 10 A current
- Diode test, data hold

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### Specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, relative humidity at 0% to 75%. Accuracy specifications take the form of: ± [(% of Reading) + (Number of Least Significant Digits)].

<table>
<thead>
<tr>
<th>Function</th>
<th>Range</th>
<th>Resolution</th>
<th>15B+</th>
<th>17B+</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AC volts</strong></td>
<td>4.000 V</td>
<td>0.001 V</td>
<td>1.0% + 3</td>
<td>1.0% + 3</td>
</tr>
<tr>
<td></td>
<td>40.00 V</td>
<td>0.1 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>400.0 V</td>
<td>1 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1000 V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DC volts</strong></td>
<td>4.000 V</td>
<td>0.001 V</td>
<td>0.5% + 3</td>
<td>0.5% + 3</td>
</tr>
<tr>
<td></td>
<td>40.00 V</td>
<td>0.1 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>400.0 V</td>
<td>1 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1000 V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AC millivolts</strong></td>
<td>400.0 mV</td>
<td>0.1 mV</td>
<td>3.0% + 3</td>
<td>3.0% + 3</td>
</tr>
<tr>
<td><strong>DC millivolts</strong></td>
<td>400.0 mV</td>
<td>0.1 mV</td>
<td>1.0% + 10</td>
<td>1.0% + 10</td>
</tr>
<tr>
<td><strong>Diode test²</strong></td>
<td>2.000 V</td>
<td>0.001 V</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td><strong>Resistance (Ω)</strong></td>
<td>400.0 Ω</td>
<td>0.1 Ω</td>
<td>0.5% + 3</td>
<td>0.5% + 3</td>
</tr>
<tr>
<td></td>
<td>4,000 kΩ</td>
<td>0.001 kΩ</td>
<td>0.5% + 2</td>
<td>0.5% + 2</td>
</tr>
<tr>
<td></td>
<td>400.0 kΩ</td>
<td>0.1 kΩ</td>
<td>0.5% + 2</td>
<td>0.5% + 2</td>
</tr>
<tr>
<td></td>
<td>4,000 MΩ</td>
<td>0.001 MΩ</td>
<td>0.5% + 2</td>
<td>0.5% + 2</td>
</tr>
<tr>
<td></td>
<td>40.00 MΩ</td>
<td>0.01 MΩ</td>
<td>1.5% + 3</td>
<td>1.5% + 3</td>
</tr>
</tbody>
</table>
Function | Range | Resolution | Accuracy | 15B+ | 17B+
--- | --- | --- | --- | --- | ---
Capacitance<sup>3</sup> | 40.00 nF | 0.01 nF | 2 % + 5 | 2 % + 5 | 2 % + 5
400.0 nF | 0.1 nF | 2 % + 5 | 2 % + 5 | 2 % + 5
4.000 μF | 0.001 μF | 5 % + 5 | 5 % + 5 | 5 % + 5
40.00 μF | 0.01 μF | 5 % + 5 | 5 % + 5 | 5 % + 5
400.0 μF | 0.1 μF | 5 % + 5 | 5 % + 5 | 5 % + 5
1000 μF | 1 μF | 5 % + 5 | 5 % + 5 | 5 % + 5
Frequency<sup>1</sup> Hz (10 Hz to 100 kHz) | 50.00 Hz | 0.01 Hz | NA | 0.1 % + 3 | 0.1 % + 3
500.0 Hz | 0.1 Hz | 0.1 % | 0.1 % | NA | 1 % typical<sup>4</sup>
5.000 kHz | 0.001 kHz | 5 % + 5 | 5 % + 5 | 5 % + 5 | 5 % + 5
50.00 kHz | 0.01 kHz | 5 % + 5 | 5 % + 5 | 5 % + 5 | 5 % + 5
Duty cycle<sup>1</sup> | 1 % to 99 % | 0.1 % | NA | 1 % typical<sup>4</sup> | 1 % typical<sup>4</sup>
AC current μA (40 Hz to 400 Hz) | 400.0 μA | 0.1 μA | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3
4000 μA | 1 μA | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3 |
AC current mA (40 Hz to 400 Hz) | 40.00 mA | 0.1 mA | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3
400.0 mA | 0.1 mA | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3 |
AC current A (40 Hz to 400 Hz) | 4.000 A | 0.001 A | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3
10.00 A | 0.01 A | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3 |
DC current μA | 400.0 μA | 0.1 μA | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3
4000 μA | 1 μA | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3 |
DC current mA | 40.00 mA | 0.01 mA | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3
400.0 mA | 0.1 mA | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3 |
DC current A | 4.000 A | 0.001 A | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3
10.00 A | 0.01 A | 1.5 % + 3 | 1.5 % + 3 | 1.5 % + 3 |
Temperature | 50 °C to 400 °C | 0.1 °C | NA | 2 % ± 1 °C | ± 2 °C
0 °C to 50 °C | ≤ 9 % ± 2 °C | 9 % ± 2 °C |
-55 °C to 0 °C | | |
Backlight | — | — | Yes | Yes |

<sup>1</sup>All ac, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.
<sup>2</sup>Typically, open circuit test voltage is 2.0 V and short circuit current is <0.6 mA.
<sup>3</sup>Specifications do not include errors due to test lead capacitance and capacitance floor (may be up to 1.5 nF in the 40 nF range).
<sup>4</sup>Typical means when the frequency is at 50 Hz or 60 Hz and the duty cycle is between 10 % and 90 %.

### General specifications

<table>
<thead>
<tr>
<th>Function</th>
<th>Overload Protection</th>
<th>Input Impedance (Nominal)</th>
<th>Common Mode Rejection Ratio</th>
<th>Normal Mode Rejection Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC volts</td>
<td>1000 V&lt;sup&gt;1&lt;/sup&gt;</td>
<td>&gt;10 MΩ, &lt;100 pF</td>
<td>&gt;60 dB at dc, 50 Hz or 60 Hz</td>
<td>–</td>
</tr>
<tr>
<td>AC millivolts</td>
<td>400 mV</td>
<td>&gt;1 MΩ, &lt;100 pF</td>
<td>&gt;80 dB at 50 Hz or 60 Hz</td>
<td>–</td>
</tr>
<tr>
<td>DC volts</td>
<td>1000 V&lt;sup&gt;1&lt;/sup&gt;</td>
<td>&gt;10 MΩ, &lt;100 pF</td>
<td>&gt;100 dB at dc, 50 Hz or 60 Hz</td>
<td>&gt;60 dB at 50 Hz or 60 Hz</td>
</tr>
<tr>
<td>DC millivolts</td>
<td>400 mV</td>
<td>&gt;10 MΩ, &lt;100 pF</td>
<td>&gt;80 dB at 50 Hz or 60 Hz</td>
<td>–</td>
</tr>
</tbody>
</table>

<sup>1</sup>10<sup>6</sup> V Hz max.

### Maximum voltage between any terminal and earth ground 1000 V

### Display (LCD) 4000 counts, updates 3/sec

### Battery type 2 AA, NEDA 15 A, IEC LR6

### Battery life 500 hours minimum (50 hours in LED Test mode without load. The hours with load depends on the type of LED under test.)

### Temperature Operating: 0 °C to 40 °C; Storage: -30 °C to 60 °C

### Relative humidity Operating humidity: ≤ 90 % RH at 10 °C to 30 °C; ≤ 75 % RH at 30 °C to 40 °C; non-condensing (<10 °C)

### Operating humidity, 40 MΩ range ≤ 80 % RH at 10 °C to 30 °C; ≤ 70 % RH at 30 °C to 40 °C

### Altitude Operating: 2000 m; Storage: 12,000 m

### Temperature coefficient 0.1 X (specified accuracy) /°C (<18 °C or >28 °C)

### Fuse protection for current inputs 440 mA, 1000 V fast fuse, Fluke specified part only. 11 A, 1000 V fast fuse, Fluke specified part only

### Size (HxWxL) 183 mm x 91 mm x 49.5 mm

### Weight 455 g

### IP rating IP40

### Safety IEC 61010-1, IEC61010-2-030 CAT III 600 V, CAT II 1000 V, Pollution Degree 2

### Electromagnetic environment

Class A Equipment (Industrial Broadcasting & Communication Equipment)<sup>1</sup>

This product meets requirements for industrial (Class A) electromagnetic wave equipment and seller or user should take notice of it. This equipment is intended for use in business environments and is not to be used in homes.

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<sup>1</sup>This product meets requirements for industrial (Class A) electromagnetic wave equipment and seller or user should take notice of it. This equipment is intended for use in business environments and is not to be used in homes.
**Ordering information**

**FLUKE-15B+** Digital Multimeter  
**FLUKE-17B+** Digital Multimeter

**Included**  
Test leads with caps, thermocouple temperature probe (17B+), 2 AA batteries, users manual.

**Optional accessories**  
TPAK Meter Hanging Kit  
TL17S TwistGuard™ Test Leads

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**Fluke. Keeping your world up and running.**

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