34XR-A
Digital Multimeter

True RMS digital multimeter with temperature and backlight for contractors and field service technicians.

- Frequency to 40 MHz, temperature to 1832 °F, capacitance to 4000 μF
- Input warning tone when test leads are in wrong jack
- 1000 V/750 V DC/AC
- 10 Amps AC/DC, fully safety fused
- Resistance to 40 MΩ
- Continuity beeper
- Min/Max, Data Hold and Range Lock
- Auto power off to save battery life
- Separate door for easy battery and fuse access
- Magne-Grip™ Holster with magnetic hanging strap
- Three-year warranty

No hassle warranty

No waiting.
No shipping charges.

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive “No Hassle” warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: $500 MSLP limit)
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General Specifications

Autoranging
Display: 3-3/4 digit LCD, 3999 counts with 41-segment analog bar graph
Display Update Rate: 2/sec, nominal
Power Battery: 9 V NEDA 1604, JIS 006P, IEC 6F22
Battery Life: 200 hrs typical (alkaline) frequent use of backlight will decrease battery life
Operating Temperature: 0 °C to 45 °C at < 70 % R.H.
Storage Temperature: -20 °C to 60 °C, 0 to 80 % R.H. with battery removed from meter
Dimensions: 196mm x 92mm x 60mm (7.75” x 3.55” x 2.4”)
Weight: 400 gr (1 lb) without holster, including battery

Specifications

Function | Range | Accuracy
---|---|---
DC Voltage | 400 mV, 4 V, 40 V, 400 V, 1000 V | ± (0.5 % rdg + 1 dgt)
Ac Voltage (45 Hz to 2 kHz) True RMS | 400 mV, 4 V, 40 V, 400 V, 750 V | ± (1.2 % rdg + 8 dgts)
| 750 V range: 45 to 1 kHz: | ± (2.0 % rdg + 8 dgts)
| All other ranges, 45 to 500 Hz: | ± (1.2 % rdg + 8 dgts)
| All other ranges, 500 to 2 kHz: | ± (2.0 % rdg + 8 dgts)
| Resolution | 100 μV
DC Current | 400 μA, 4 mA, 40 mA, 300 mA, 10 A | ± (1.0 % rdg + 1 dgt)
| 10 A range: | ± (2.0 % rdg + 3 dgts)
| Resolution | 0.1 μA
AC Current (45 Hz to 1 kHz) True RMS | 400 μA, 4 mA, 40 mA, 300 mA, 10 A | ± (1.5 % rdg + 8 dgts)
| 10 A range: | ± (2.5 % rdg + 10 dgts)
| Resolution | 0.1 μA
Resistance | 400 Ω, 4 kΩ, 40 kΩ, 400 kΩ, 4 MΩ, 40 MΩ | ± (1.0 % rdg + 4 dgts)
| 40 MΩ range: | ± (2.0 % rdg + 5 dgts)
| Resolution | 100 mΩ
Capacitance | 4 μF, 40 μF, 400 μF, 4000 μF | ± (5.0 % rdg + 10 dgts)
| 40 μF, 400 uF ranges: | ± (5.0 % rdg + 5 dgts)
| 4000 μF range: | ± (5.0 % rdg + 15 dgts)
| Resolution | 1 nF
### Specifications, cont.

<table>
<thead>
<tr>
<th>Function</th>
<th>Range</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ranges</td>
<td>-20 °C to 1000 °C, -4 °F to 1832 °F</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>-20 °C to 10 °C:</td>
<td>± (2.0 % rdg + 4 °C)</td>
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<tr>
<td></td>
<td>10 °C to 200 °C:</td>
<td>± (1.0 % rdg + 3 °C)</td>
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<tr>
<td></td>
<td>200 °C to 1000 °C:</td>
<td>± (3.0 % rdg + 2 °C)</td>
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<tr>
<td></td>
<td>-4 °F to 50 °F:</td>
<td>± (2.0 % rdg + 8 °F)</td>
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<td></td>
<td>50 °F to 400 °F:</td>
<td>± (1.0 % rdg + 6 °F)</td>
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<tr>
<td></td>
<td>400 °F to 1832 °F:</td>
<td>± (3.0 % rdg + 4 °F)</td>
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<tr>
<td>Resolution</td>
<td></td>
<td>1 °C, 1 °F</td>
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<tr>
<td><strong>Frequency</strong></td>
<td></td>
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<tr>
<td>Ranges</td>
<td>4 kHz, 40 kHz, 400 kHz, 4 MHz, 40MHz</td>
<td>± (0.1 % rdg + 3 dgts)</td>
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<tr>
<td>Resolution</td>
<td></td>
<td>1 Hz</td>
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<tr>
<td><strong>Duty Cycle</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ranges</td>
<td>0 to 90 %</td>
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<tr>
<td>Accuracy</td>
<td>5 V logic:</td>
<td>± (2.0 % rdg + 5 dgts)</td>
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<tr>
<td><strong>Continuity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audible Indication</td>
<td></td>
<td>&lt; 35 Ω</td>
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<tr>
<td><strong>Diode Test</strong></td>
<td></td>
<td></td>
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<tr>
<td>Test Current</td>
<td>1.2 mA (approximate)</td>
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<tr>
<td>Open Circuit Volts</td>
<td></td>
<td>3.0 V DC typical</td>
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<tr>
<td><strong>Overload Protection</strong></td>
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<tr>
<td>AC/DC Voltage</td>
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<td>All ranges 1000 V DC or 750 V AC RMS</td>
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<tr>
<td>AC/DC Current</td>
<td>μA/mA input: 0.315 A /1000 V fast-blow ceramic (6.3 x 32 mm)</td>
<td>10 A input: 10 A /1000 V fast-blow ceramic 10 x 38 mm</td>
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<td>(10 A for 4 minutes maximum followed by a 12 minute cooling period)</td>
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Included Accessories
Test leads with threaded alligator clips (TL36A), 9 V battery (installed), Magne-Grip™ Holster with magnetic hanging strap, Temperature adapter (TA-1), Type K thermocouple probe (TP255A), spare fuse, users manual

Optional Accessories
VC221B   Padded Vinyl Carry Case
DL248D   Deluxe Test Lead Kit
DC205C   Heavy Duty Case
HV231-10A High Voltage Probe
TP254A   High Temperature Probe