



34XR-A Digital Multimeter

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

- Frequency to 1 MHz, temperature to 1832 °F, capacitance to 4000 μ F
- 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 M Ω
- 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



34XR-A

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)



34XR-A Digital Multimeter

Data Sheet

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 50 °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 | | |
| Ranges | 400 mV, 4 V, 40 V, 400 V, 1000 V | ± (0.5 % rdg + 1 dgt) |
| Resolution | 100 µV | |
| AC Voltage (45 Hz to 2 kHz) True RMS | | |
| Ranges | 400 mV, 4 V, 40 V, 400 V, 750 V | |
| Accuracy | 400 mV range, 45 to 100 Hz: | ± (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 | |
| AC coupled True RMS specified from 5 % to 100 % of range | | |
| DC Current | | |
| Ranges | 400 µA, 4 mA, 40 mA, 300 mA, 10 A | |
| Accuracy | 400 µA to 300 mA ranges: | ± (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 | | |
| Ranges | 400 µA, 4 mA, 40 mA, 300 mA, 10 A | |
| Accuracy | 400 µA to 300 mA ranges: | ± (1.5 % rdg + 8 dgts) |
| | 10 A range: | ± (2.5 % rdg + 10 dgts) |
| Resolution | 0.1 µA | |
| Resistance | | |
| Ranges | 400 Ω, 4 kΩ, 40 kΩ, 400 kΩ, 4 MΩ, 40 MΩ | |
| Accuracy | 400, 4 k, 40 k, 400 k, 4 MΩ ranges: | ± (1.0 % rdg + 4 dgts) |
| | 40 MΩ range: | ± (2.0 % rdg + 5 dgts) |
| Resolution | 100 mΩ | |
| Capacitance | | |
| Ranges | 4 µF, 40 µF, 400 µF, 4000 µF | |
| Accuracy | 4 µF range: | ± (5.0 % rdg + 10 dgts) |
| | 40 µF, 400 µF ranges: | ± (5.0 % rdg + 5 dgts) |
| | 4000 µF range: | ± (5.0 % rdg + 15 dgts) |
| Resolution | 1 nF | |

Specifications, cont.

| Function | Range | Accuracy |
|----------------------------|--|------------------------|
| Temperature | | |
| Ranges | -20 °C to 1000 °C, -4 °F to 1832 °F | |
| Accuracy | -20 °C to 10 °C: | ± (2.0 % rdg + 4 °C) |
| | 10 °C to 200 °C: | ± (1.0 % rdg + 3 °C) |
| | 200 °C to 1000 °C: | ± (3.0 % rdg + 2 °C) |
| | -4 °F to 50 °F: | ± (2.0 % rdg + 8 °F) |
| | 50 °F to 400 °F: | ± (1.0 % rdg + 6 °F) |
| | 400 °F to 1832 °F: | ± (3.0 % rdg + 4 °F) |
| Resolution | 1 °C, 1 °F | |
| Frequency | | |
| Ranges | 4 kHz, 40 kHz, 400 kHz, 1 MHz | ± (0.1 % rdg + 3 dgts) |
| Resolution | 1 Hz | |
| Duty Cycle | | |
| Ranges | 0 to 90 % | |
| Accuracy | 5 V logic: | ± (2.0 % rdg + 5 dgts) |
| Frequency Range | 40 Hz to 20 kHz | |
| Continuity | | |
| Audible Indication | < 35 Ω | |
| Diode Test | | |
| Test Current | 1.2 mA (approximate) | |
| Open Circuit Volts | 3.0 V DC typical | |
| Overload Protection | | |
| AC/DC Voltage | All ranges 1000 V DC or 750 V AC RMS | |
| AC/DC Current | μA/mA input: 0.315 A /1000 V fast-blow ceramic (6.3 x 32 mm) | |
| | 10 A input: 10 A /1000 V fast-blow ceramic 10 x 38 mm (10 A for 4 minutes maximum followed by a 12 minute cooling period) | |

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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 |

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