



# 34XR-A

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
- CAT III 600 V, CAT II 1000 V rated
- UL (cULus) listed
- Three-year warranty

## 34XR-A Specifications (at 23 °C ± 5 °C, <75 % R.H. non-condensing)

<b>DC Voltage</b>	
Ranges	400 mV, 4 V, 40 V, 400 V, 1000 V
Accuracy	all ranges: ± (0.5 % rdg + 1 dgt)
Resolution	100 µV
<b>AC Voltage (45 Hz to 2 kHz) True RMS</b>	
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	
<b>DC Current</b>	
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
<b>AC Current (45 Hz to 1 kHz) True RMS</b>	
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
<b>Resistance</b>	
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
<b>Capacitance</b>	
Ranges	4 µF, 40 µF, 400 µF, 4000 µF
Accuracy	4 µF range: ± (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
<b>Temperature</b>	
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
<b>Frequency</b>	
Ranges	4 kHz, 40 kHz, 400 kHz, 4 MHz, 40MHz
Accuracy	all ranges: ± (0.1 % rdg + 3 dgts)
Resolution	1 Hz
<b>Duty Cycle</b>	
Ranges	0 to 90 %
Accuracy	5 V logic: ± (2.0 % rdg + 5 dgts)
Frequency Range	40 Hz to 20 kHz
<b>Continuity</b>	
Audible Indication	< 35 Ω



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

Digital Multimeter

### 34XR-A Specifications (at 23 °C ± 5 °C, <75 % R.H. non-condensing)

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)

### General Specifications

**Autorangeing; 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:** 7.75" x 3.55" x 2.4" (196 x 92 x 60mm); **Weight (without holster, including battery):** 1 lb (400 gr)

### Included Accessories

Test leads with threaded alligator clips (TL36), 9 V battery (installed), Magne-Grip™ Holster with magnetic hanging strap (H2-XR), Temperature adapter (XR-TA), Type K thermocouple probe (TP255), spare fuse, operators manual

### Features

Input lead warning; analog bar graph; Data Hold; Min/Max; Range Lock; auto power off after 30 minutes typical; low battery indication; backlight; overrange indication; easy access fuse and battery door; three-year warranty

### Optional Accessories

VC221A Padded Vinyl Carry Case, DL248C Deluxe Test Lead Kit, DC205B Heavy Duty Case, HV231-10 High Voltage Probe, TP254 High Temperature Probe

