AMPROBE®

Data Sheet

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

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)

CAT II 1000V CAT III 600V c UL us CE N10140

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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		
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 uF 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, 4 MHz, 40MHz	± (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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