



Data Sheet

# 30XR-A Digital Multimeter

Manual ranging digital multimeter with non-contact voltage tester.

- Non-contact voltage tester to 600 V AC
- Magne-Grip™ Holster with magnetic hanging strap
- 600 V AC/DC
- 10 Amps AC/DC, fully safety fused
- Resistance to 20 MΩ
- Continuity beeper
- 1.5 V / 9 V battery test under load
- Min/Max and Data Hold
- Separate door for easy battery and fuse access
- One-year warranty



30XR-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)



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### General Specifications

|                        |   |
|------------------------|---|
| <b>Manual Ranging</b>  |   |
| Display:               | 3-1/2 digit LCD, 1999 counts                                    |
| Display Update Rate:   | 2.5/sec, nominal  |
| Power Battery:         | 9 V NEDA 1604, JIS 006P, IEC 6F22                               |
| Battery Life:          | 200 hrs typical (carbon-zinc)                                   |
| 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:            | 196 x 92 x 60 mm (7.7" x 3.5" x 2.4")                           |
| Weight:                | 426 gr (0.94 lb) without holster, including battery             |

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

| Function                            | Range   | Accuracy               |
|-------------------------------------|---|------------------------|
| <b>DC Voltage</b>                   |   |                        |
| Ranges                              | 200 mV, 2 V, 20 V, 200 V, 600 V   |                        |
| Accuracy                            | all ranges:   | ± (1 % rdg + 1 dgt)    |
| Resolution                          | 100 µV  |                        |
| Input Impedance                     | 10 MΩ   |                        |
| <b>AC Voltage (45 Hz to 500 Hz)</b> |   |                        |
| Ranges                              | 200 mV, 2 V, 20 V, 200 V, 600 V   |                        |
| Accuracy                            | all ranges:   | ± (1.5 % rdg + 4 dgts) |
| Resolution                          | 100 µV  |                        |
| Input Impedance                     | 10 MΩ   |                        |
| <b>DC Current</b>                   |   |                        |
| Ranges                              | 200 µA, 2 mA, 20 mA, 200 mA, 10 A   |                        |
| Accuracy                            | 200 µA to 200 mA ranges:  | ± (1.5 % rdg + 1 dgt)  |
|                                     | 10 A range:   | ± (2.0 % rdg + 3 dgts) |
| Resolution                          | 0.1 µA  |                        |
| Voltage Burden (Max)                | 200 µA range: 1 mV/µA<br>2 mA range: 100 mV/1mA<br>20 mA range: 13 mV/1 mA<br>200 mA range: 4.6 mV/1 mA<br>10A range: 40 mV/1 A |                        |
| <b>AC Current (45 Hz to 500 Hz)</b> |   |                        |
| Ranges                              | 200 µA, 2 mA, 20 mA, 200 mA, 10 A   |                        |
| Accuracy                            | 200 µA to 200 mA ranges:  | ± (2.0 % rdg + 4 dgts) |
|                                     | 10A range:  | ± (2.5 % rdg + 4 dgts) |
| Resolution                          | 0.1 µA  |                        |
| Voltage Burden                      | See DC Current  |                        |
| <b>Resistance</b>                   |   |                        |
| Ranges                              | 200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 2 MΩ, 20 MΩ   |                        |
| Accuracy                            | 200 Ω to 200 kΩ ranges: ± (1.0 % rdg + 4 dgts)<br>2 MΩ range: ± (1.5 % rdg + 4 dgts)<br>20 MΩ range: ± (2.0 % rdg + 5 dgts)     |                        |
| Resolution                          | 100 mΩ  |                        |
| Open Circuit Voltage                | 200 Ω range: 3.0 V DC<br>All other ranges: 0.3V DC typical  |                        |

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Specifications (at 23 °C ± 5 °C, <75 % R.H. non-condensing), cont.

| Function                                  | Range  | Accuracy               |
|---|--|------------------------|
| <b>Continuity</b>                         |  |                        |
| Audible Indication                        | 75 Ω   | ± 25 Ω                 |
| Response Time                             | 100 ms   |                        |
| <b>Diode Test</b>                         |  |                        |
| Test Current                              | 1.0 mA (approximate)   | ± (1.5 % rdg + 3 dgts) |
| Resolution                                | 0.001 V  |                        |
| Open Circuit Volts                        | 3.0 V typical  |                        |
| <b>Battery Test</b>                       |  |                        |
| Ranges                                    | 1.5 V, 9 V   | ± (3.5 % rdg + 2 dgts) |
| Resolution                                | 1 mV, 10 mV  |                        |
| Load Test Current                         | 1.5 V range: 150 mA typical<br>9 V range: 5 mA typical   |                        |
| <b>Non-Contact Voltage Detector (NCV)</b> |  |                        |
| AC Volts                                  | 70 to 600 V ac   |                        |
| Red LED and Audible Indicator             |  |                        |
| <b>Overload Protection</b>                |  |                        |
| AC/DC Voltage 400 mV range:               | 600 V DC or 600 V AC RMS 15 sec  |                        |
| All other ranges:                         | 600 V DC or 600 V AC RMS   |                        |
| AC/DC Current uA/mA input:                | F 0.25 A / 600 V Min. I.R. 30 kA (6.3 x 32 mm)<br>10 A input F 10A / 600V, Min. I.R. 100 kA, (10 x 38 mm)<br>(10 A for 4 minutes maximum followed by a 12 minute cooling period) |                        |
| Resistance                                | 600 V DC or 600 V rms  |                        |
| Continuity                                | 600 V DC or 600 V AC RMS   |                        |
| Diode Test                                | 600 V DC or 600 V AC RMS   |                        |
| Battery Test                              | 600 V DC or 600 V AC RMS   |                        |



### Included Accessories

Test leads (TL36A), 9 V battery (installed),  
Magne-Grip™ Holster with magnetic hanging  
strap, spare fuse, users manual

### Optional Accessories

|           |                         |
|-----------|-------------------------|
| VC221B    | Padded Vinyl Carry Case |
| DL248D    | Deluxe Test Lead Kit    |
| DC207C    | Heavy Duty Case         |
| HV231-10A | High Voltage Probe      |
| TC253A    | Temperature Adaptor     |
| TP254A    | High Temperature Probe  |

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