



# 5XP-A Digital Multimeter

A compact full-purpose multimeter.

The Amprobe 5XP-A digital multimeter provides superior features and accuracy in a smaller form factor. The 5XP-A has unique features such as VolTect™ non-contact voltage (NVC) detection and our exclusive Magne-Grip™ holster that frees both hands for work. The 5XP-A is the right choice for residential, commercial and general troubleshooting applications.

## 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)

- 27 ranges/10 functions
- Battery load test with 1.5 V and 9 V capabilities
- MinMax record minimum and maximum values
- Triple safety rating



5XP-A



## 5XP-A Digital Multimeter

## Data Sheet

### General Specifications

|                         |   |
|-------------------------|---|
| Display                 | 3-1/2 digit liquid crystal display (LCD) with a maximum reading of 1999       |
| Polarity                | Automatic, positive implied, negative polarity indication                     |
| Overrange               | (OL) or (-OL) is displayed  |
| Low Battery Indication  | The "⚡" is displayed when the battery voltage drops below the operating level |
| Measurement Rate        | 2.5 times per second, nominal   |
| Operating Environment   | 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               |
| Accuracy                | Stated accuracy at 23 °C ± 5 °C, <75 % relative humidity                      |
| Temperature Coefficient | 0.1 x (specified accuracy) per °C (0 °C to 18 °C, 28 °C to 50 °C)             |
| Altitude                | 2000 m (6561.7 ft)  |
| Power                   | Single standard 9 volt battery, NEDA 1604, JIS 006P, IEC 6F22                 |
| Battery Life            | 200 hours typical with carbon-zinc  |
| Dimensions (H x W x D)  | 155 mm x 72 mm x 32 mm (6.1 in x 2.8 in x 1.3 in)                             |
| Weight                  | Approx. 210 g (7.4 oz) including battery                                      |
| Warranty                | One-year  |

### Specifications

| Function                     | Range  | Accuracy               |
|------------------------------|--|------------------------|
| <b>Voltage</b>               |  |                        |
| DC Volts                     |  |                        |
| Ranges                       | 200 mV, 2 V, 20 V, 200 V, 1000 V   | ± (1.0 % rdg + 1 dgt)  |
| AC Volts (45 Hz to 500 Hz)   |  |                        |
| Ranges                       | 200 mV, 2 V, 20 V, 200 V, 750 V  | ± (1.5 % rdg + 5 dgts) |
| Resolution                   | 100 µV   |                        |
| Input Impedance              | 10 MΩ  |                        |
| Overload Protection          | 200 mV: 1000 V DC or 750 V AC RMS (3 minutes)<br>All other ranges: 1000 V DC or 750 V AC RMS |                        |
| <b>Current</b>               |  |                        |
| DC Current                   |  |                        |
| Ranges                       | 200 µA, 2 mA, 20 mA, 200 mA  | ± (1.5 % rdg + 1 dgt)  |
| AC Current (45 Hz to 500 Hz) |  |                        |
| Ranges                       | 200 µA, 2 mA, 20 mA, 200 mA  | ± (2.0 % rdg + 5 dgts) |
| Resolution                   | 0.1 µA   |                        |
| Input Protection             | 315 mA/1000 V fast blow ceramic fuse 6.3 mm x 32 mm on mA input                              |                        |
| Burden Voltage               | 300 mV max. (1 V max. on 200 mA range)   |                        |
| Resistance                   |  |                        |
|                              | 200 Ω, 2 kΩ, 20 kΩ, 200 kΩ   | ± (1.0 % rdg + 4 dgts) |
|                              | 2 MΩ   | ± (1.5 % rdg + 4 dgts) |
|                              | 20 MΩ  | ± (2.0 % rdg + 5 dgts) |
| Resolution                   | 100 mΩ   |                        |
| Open Circuit Voltage         | 0.3 V DC typical, (3.0 V DC on 200 Ω range)  |                        |
| Overload Protection          | 1000 V DC or 750 V AC RMS  |                        |
| <b>Continuity</b>            |  |                        |
| Audible Indication           | 75 Ω   | ± 25 Ω                 |
| Response Time                | 100 ms   |                        |
| Overload Protection          | 1000 V DC or 750 V AC RMS  |                        |

## Specifications, cont.

| Function   | Range  | Accuracy                                    |
|--|--|---|
| <b>Diode Test</b>  |  |   |
| Test Current   | 1.0 mA (approximate)   | $\pm(1.5 \% \text{ rdg} + 3 \text{ dgts})$  |
| Resolution   | 1 mV   |   |
| Open Circuit Voltage   | 3.0 V DC typical   |   |
| Overload Protection  | 1000 V DC or 750 V AC RMS  |   |
|  | 1000 V 600 V 300 V   |   |
| <b>Battery Test</b>  |  |   |
|  | 1.5 V, 9 V   | $\pm (3.5 \% \text{ rdg} + 2 \text{ dgts})$ |
| Resolution   | 1 mV, 10 mV  |   |
| Loaded Current   | 150 mA typical for 1.5 V range, 5 mA typical for 9 V range       |   |
| Overload Protection  | 1000 V DC or 750 V AC RMS on 9 V range, on V $\Omega$ input      |   |
|  | 315 mA/1000 V fast blow ceramic fuse on 1.5 V range, on mA input |   |
| <b>Non-Contact Voltage Indicator</b>   |  |   |
| Sense voltage 70 V to 600 V AC; beeper chirps and bright red LED comes on, works on all ranges |  |   |



### Included Accessories

Pair of test leads (TL245A), fuse 315 mA/1000 V P/N FP300, 9 V battery (installed), Magne-Grip™ Holster with magnetic hanging strap and users manual.

### Optional Accessories

**VC30A** Carrying Case  
**DL243D** Test Lead Kit  
**TC253B** Temperature Converter  
**TL36A** Test Lead Set with alligator clips

### Amprobe® Test Tools

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