



# 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) 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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