



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.

- 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

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)



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
Voltage		
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	
Current		
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	
Continuity		
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
Diode Test		
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	
Battery Test		
	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 Ω input	
	315 mA/1000 V fast blow ceramic fuse on 1.5 V range, on mA input	
Non-Contact Voltage Indicator		
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

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35XP-A Digital Multimeter

A compact, full-featured digital multimeter for plant maintenance, HVAC, electrical and electronic applications.

- Temperature measurement
Capability to 1000 °C/1832 °F
(Type K thermocouple included)
- 750 V AC/1000 V DC—highest
voltage rating in this class of
meter
- Capacitance for motor run/start
test
- 0.1 μ A resolution for flame
sensor testing
- Frequency to 1 MHz
- Resistance to 40 M Ω
- Data Hold freezes display
- Magne-Grip™ holster
- Voltect™ non-contact voltage
detector
- Triple safety ratings



35XP-A

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*No shipping
charges.*



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(note: \$500 MSLP limit)



35XP-A Digital Multimeter

Data Sheet

General Specifications

Display	3-3/4 digit liquid crystal display (LCD) with a maximum reading of 3999
Polarity	Automatic, positive implied, negative polarity indication
Overrange	(OL) or (-OL) is displayed
Zero	Automatic
Low Battery Indication	The "⚡" is displayed when the battery voltage drops below the operating level
Auto Power Off	Approx. 10 minutes
Measurement Rate	2 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
Power	Single standard 9 volt battery, NEDA 1604, JIS 006P, IEC 6F22
Battery Life	150 hours typical with carbon-zinc, 300 hours typical with alkaline
Dimensions (H x W x D)	155 mm x 72 mm x 32 mm
Weight	Approx. 400 g including battery
Warranty	One-year

Specifications

Function	Range	Accuracy
Voltage		
DC Volts		
Ranges	400 mV, 4 V, 40 V, 400 V, 1000 V	± (0.5 % rdg + 1 dgt)
AC Volts (45 Hz to 500 Hz)		
Ranges	400 mV (45 Hz to 100 Hz) 4 V, 40 V, 400 V, 750 V	± (1.5 % rdg + 5 dgts) ± (1.5 % rdg + 5 dgts)
Resolution	100 µV	
Input Impedance	400 mV: >100 MΩ; 4 V: 10 MΩ; 40 V to 1000 V: 9.1 MΩ	
Overload Protection	1000 V DC or 750 V AC RMS	
Current		
DC Current		
Ranges	400 µA, 4000 µA, 40 mA, 400 mA 2 A	± (1.0 % rdg + 2 dgt) ± (2.0 % rdg + 3 dgts)
AC Current (45 Hz to 500 Hz)		
Ranges	400 µA, 4000 µA, 40 mA, 400 mA 2 A	± (1.5 % rdg + 5 dgts) ± (2.5 % rdg + 5 dgts)
Resolution	0.1 µA	
Input Protection	2 A/1000 V fast blow ceramic fuse 6.3 mm x 32 mm on A input	
Burden Voltage	500 mV max. (2 V max. on 4 mA, 400 mA ranges)	
Resistance		
	400 Ω, 4 kΩ, 40 kΩ, 400 kΩ, 4 MΩ 40 MΩ	± (1.0 % rdg + 4 dgts) ± (2.0 % rdg + 5 dgts)
Resolution	100 mΩ	
Open Circuit Voltage	-0.45 V DC typical, (-1.2 V DC on 400 Ω range)	
Overload Protection	1000 V DC or 750 V AC RMS	

Specifications, cont.

Function	Range	Accuracy
Capacitance	4 nF, 40 nF, 400 nF, 4 μ F	\pm (5.0 % rdg + 30 dgts)
	40 μ F, 400 μ F	\pm (5.0 % rdg + 5 dgts)
	4 mF	\pm (5.0 % rdg + 15 dgts)
Resolution	1 pF	
Test Voltage	< 1 V	
Test Frequency	1.3 Hz on 4 nF to 40 μ F ranges, 0.7 Hz on 400 μ F, 4 mF ranges	
Input Protection	2 A/1000 V fast blow ceramic fuse 6.3 mm x 32 mm on A input	
Temperature	400 °C, 1000 °C, 400 °F, 1832 °F	
	-20 °C to 10 °C	\pm (2.0 % rdg + 4 °C)
	10 °C to 200 °C	\pm (1.0 % rdg + 3 °C)
	200 °C to 1000 °C	\pm (3.0 % rdg + 2 °C)
	-4 °F to 50 °F	\pm (2.0 % rdg + 8 °F)
	50 °F to 400 °F	\pm (1.0 % rdg + 6 °F)
	400 °F to 1832 °F	\pm (3.0 % rdg + 4 °F)
Resolution	0.1 °C, 0.1 °F	
Overload Protection	1000 V DC or 750 V AC RMS	
	1000 V 600 V 300 V	
Frequency	4 k, 40 k, 400 k, 1 M	\pm (0.1 % rdg + 3 dgts)
Resolution	1 Hz	
Sensitivity	10 Hz to 1 MHz: >2.5 V rms	
Minimum Pulse Width	> 25 ns	
Duty Cycle Limits	> 30 % and < 70 %	
Overload Protection	1000 V DC or 750 V AC RMS	
Continuity		
Audible Indication	Less than 25 Ω	
Response Time	100 ms	
Overload Protection	1000 VDC or 750 VAC rms	
Diode Test		
Test Current	1.2 mA (approximate)	\pm (1.5 % rdg + 3 dgts)
Resolution	1 mV	
Open Circuit Voltage	3.0 DC typical	
Overload Protection	1000 V DC or 750 V AC RMS	
Non-Contact Voltage Indicator		
Sense voltage 70 V to 600 V AC beeper chirps and big bright red LED comes on, works on all ranges		



Included Accessories

Pair of test leads (TL245A), K-type thermocouple (TP255A), temperature adapter (XR-TA), fuse 2 A/ 1000 V (P/N FP200), 9 V battery (installed), Magne-Grip™ Holster with magnetic hanging strap (H2-XR) and users manual.

Optional Accessories

VC30A Carrying Case
DL243D Test Lead Kit

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