

## Data Sheet

# 15XP-A Digital Multimeter



## A compact digital multimeter for electronics and test applications

The 15XP-A is the right choice for electronics engineers, technicians and field service.

- Autoranging display for faster measurements
- TTL logic test for digital circuits
- Integrated tilt stand for easy bench use
- Diode test for component level troubleshooting
- Data Hold freezes display to “hold” measurement reading
- 750 V ac/1000 V dc—highest voltage rating in this size of meter

### Specifications

Function	Range	Accuracy
<b>Voltage</b>		
<b>DC Volts</b>		
Ranges	200 mV, 2 V, 20 V, 200 V, 1000 V	± (0.5 % rdg + 1 dgt)
<b>AC Volts (45 Hz to 500 Hz)</b>		
Ranges	200 mV (45 Hz to 100 Hz) 2 V, 20 V, 200 V, 750 V	± (1.5 % rdg + 5 dgts) ± (1.5 % rdg + 5 dgts)
<b>Resolution</b>	100 $\mu$ V	
<b>Input Impedance</b>	400 mV: > 100 M $\Omega$ ; 4 V: 10 M $\Omega$ ; 40 V to 1000 V: 9.1 M $\Omega$	
<b>Overload Protection</b>	1000 V dc or 750 V ac rms	
<b>Current</b>		
<b>DC Current</b>		
Ranges	200 $\mu$ A, 2000 $\mu$ A, 20 mA, 200 mA 2 A	± (1.0 % rdg + 2 dgt) ± (2.0 % rdg + 3 dgts)
<b>AC Current (45 Hz to 500 Hz)</b>		
Ranges	200 $\mu$ A, 2000 $\mu$ A, 20 mA, 200 mA 2 A	± (1.5 % rdg + 5 dgts) ± (2.5 % rdg + 5 dgts)
<b>Resolution</b>	0.1 $\mu$ A	
<b>Input Protection</b>	2 A/1000 V fast blow ceramic fuse 6.3 mm x 32 mm on A input	
<b>Burden Voltage</b>	500 mV max. (2 V max. on 2 mA, 200 mA ranges)	
<b>Resistance</b>		
	200 $\Omega$ , 2 k $\Omega$ , 20 k $\Omega$ , 200 k $\Omega$ , 2 M $\Omega$ 2000 M $\Omega$	± (1.0 % rdg + 4 dgts) ± {5.0 % (rdg -10 dgts) + 20 dgt}
<b>Resolution</b>	100 m $\Omega$	
<b>Open Circuit Voltage</b>	-0.45 V dc typical, (-1.2 V dc on 200 $\Omega$ range)	
<b>Overload Protection</b>	1000 V dc or 750 V ac rms	
<b>Continuity</b>		
<b>Audible Indication</b>	Less than 25 $\Omega$	
<b>Response Time</b>	100 ms	
<b>Overload Protection</b>	1000 V dc or 750 V ac rms	
<b>Diode Test</b>		
<b>Test Current</b>	1.2 mA (approximate)	± (1.5 % rdg + 3 dgts)
<b>Resolution</b>	1 mV	
<b>Open Circuit Voltage</b>	3.0 dc typical	
<b>Overload Protection</b>	1000 V dc or 750 V ac rms	



### Specifications *cont.*

Function	Range	Accuracy
<b>Logic Test</b>	TTL	
<b>Thresholds Logic 1 (Hi )</b>	2.8 V ± 0.8 V	
<b>Thresholds Logic 0 (Lo)</b>	0.8 V ± 0.5 V	
<b>Test Voltage</b>	TTL 5 VDC	
<b>Frequency Range</b>	20 MHz	
<b>Pulse Width</b>	25 ns min	
<b>Duty Cycle Limits</b>	> 30 % and < 70 %	
<b>Indication</b>	40 ms beep at Logic 0 ( Lo)	
<b>Overload Protection</b>	1000 VDC or 750 VAC rms	
<b>Non-Contact Voltage Indicator</b>		
Sense voltage 70 V to 600 V ac (50 Hz to 60 Hz) beeper chirps and big bright red LED comes on, works on all ranges		

### General Specifications

<b>Display</b>	3-1/2 digit liquid crystal display (LCD) with a maximum reading of 1999
<b>Polarity</b>	Automatic, positive implied, negative polarity indication
<b>Overrange</b>	(OL) or (-OL) is displayed
<b>Zero</b>	Automatic
<b>Low Battery Indication</b>	The "  " is displayed when the battery voltage drops below the operating level
<b>Auto Power Off</b>	Approx. 10 minutes
<b>Measurement Rate</b>	2 times per second, nominal
<b>Operating Environment</b>	0 °C to 50 °C at < 70 % R.H.
<b>Storage Temperature</b>	-20 °C to 60 °C, 0 to 80 % R.H. with battery removed from meter
<b>Accuracy</b>	Stated accuracy at 23 °C ± 5 °C, < 75 % relative humidity
<b>Temperature Coefficient</b>	0.1 x (specified accuracy) per °C (0 °C to 18 °C, 28 °C to 50 °C)
<b>Altitude</b>	2000 m
<b>Power</b>	Single standard 9 volt battery, NEDA 1604, JIS 006P, IEC 6F22
<b>Battery Life</b>	200 hours typical with carbon-zinc
<b>Dimensions (H x W x D)</b>	155 mm x 72 mm x 32 mm
<b>Weight</b>	Approx. 210 g including battery
<b>Warranty</b>	One-year

**No waiting.**

**No shipping charges.**



## No hassle warranty

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that a Amprobe test tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

### Included Accessories

Pair of test leads (TL245), 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

**VC30** Carrying Case  
**DL243C** Test Lead Kit



**Amprobe® Test Tools**  
 website: [www.Amprobe.com](http://www.Amprobe.com)  
 email: [info@amprobe.com](mailto:info@amprobe.com)  
 6920 Seaway Blvd.  
 Everett, WA 98203  
 tel: 877-AMPROBE

**Amprobe® Test Tools Europe**  
 P.O. Box 1186  
 5602 BD Eindhoven  
 The Netherlands