

Data Sheet

15XP
Digital
Multimeter

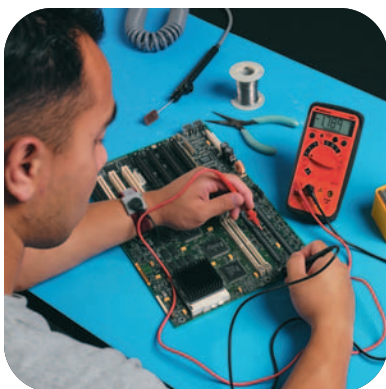


A compact digital multimeter for electronics and test applications

- The 15XP 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
Voltage		
DC Volts		
Ranges	200 mV, 2 V, 20 V, 200 V, 1000 V	± (0.5 % rdg + 1 dgt)
AC Volts (45 Hz to 500 Hz)		
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)
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	200 μA, 2000 μA, 20 mA, 200 mA 2 A	± (1.0 % rdg + 2 dgt) ± (2.0 % rdg + 3 dgts)
AC Current (45 Hz to 500 Hz)		
Ranges	200 μA, 2000 μA, 20 mA, 200 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 2 mA, 200 mA ranges)	
Resistance		
	200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 2 MΩ 20 MΩ	± (1.0 % rdg + 4 dgts) ± (3.0 % rdg + 5 dgts)
Resolution	100 mΩ	
Open Circuit Voltage	-0.45 V dc typical, (-1.2 V dc on 200 Ω range)	
Overload Protection	1000 V dc or 750 V ac rms	
Continuity		
Audible Indication	Less than 25 Ω	
Response Time	100 ms	
Overload Protection	1000 V dc or 750 V ac rms	
Diode Test		
Test Current	1.2 mA (approximate)	± (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	



Specifications *cont.*

Function	Range	Accuracy
Logic Test	TTL	
Thresholds Logic 1 (Hi)	2.8 V $\pm$ 0.8 V	
Thresholds Logic 0 (Lo)	0.8 V $\pm$ 0.5 V	
Test Voltage	TTL 5 VDC	
Frequency Range	20 MHz	
Pulse Width	25 ns min	
Duty Cycle Limits	> 30 % and < 70 %	
Indication	40 ms beep at Logic 0 (Lo)	
Overload Protection	1000 VDC or 750 VAC rms	
Non-Contact Voltage Indicator		
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

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
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 $\pm$ 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	200 hours typical with carbon-zinc
Dimensions (H x W x D)	155 mm x 72 mm x 32 mm
Weight	Approx. 210 g including battery
Warranty	One-year



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



PEWA
 Messtechnik GmbH

Weidenweg 21
 58239 Schwerte

Tel.: 02304-96109-0
 Fax: 02304-96109-88
 E-Mail: info@pewa.de
 Homepage : www.pewa.de