

## Specifications for Digital Multimeter

### 1. Technical Specifications:

S. No.	Specifications	Specifications Values
1.	Voltage DC Volts AC Volts (45 Hz to 500 Hz) Resolution Input Impedance Overload Protection	200 mV, 2 V, 20 V, 200 V, 1000 V $\pm$ (1.0 % rdg + 1 dgt) 200 mV, 2 V, 20 V, 200 V, 750 V $\pm$ (1.5 % rdg + 5 dgts) 100 $\mu$ V 10 M $\Omega$ 200 mV: 1000 V DC or 750 V AC RMS (3 minutes) All other ranges: 1000 V DC or 750 V AC RMS
2.	Current DC Current AC Current (45 Hz to 500 Hz) Resolution Input Protection Burden Voltage	200 $\mu$ A, 2 mA, 20 mA, 200 mA $\pm$ (1.5 % rdg + 1 dgt) 200 $\mu$ A, 2 mA, 20 mA, 200 mA $\pm$ (2.0 % rdg + 5 dgts) 0.1 $\mu$ A 315 mA/1000 V fast blow ceramic fuse on mA input 300 mV max. (1 V max. on 200 mA range)
3.	Resistance  Resolution Open Circuit Voltage Overload Protection	200 W, 2 kW, 20 kW, 200 kW $\pm$ (1.0 % rdg + 4 dgts) 2 MW $\pm$ (1.5 % rdg + 4 dgts) 20 MW $\pm$ (2.0 % rdg + 5 dgts) 100 mW 0.3 V DC typical, (3.0 V DC on 200 W range) 1000 V DC or 750 V AC RMS
4.	Frequency	100 kilo Hertz
5.	Continuity Audible Indication Response Time Overload Protection	75 W $\pm$ 25 W 100 ms 1000 V DC or 750 V AC RMS
6.	Diode Test Test Current Resolution Open Circuit Voltage Overload Protection	1.0 mA (approximate) $\pm$ (1.5 % rdg + 3 dgts) 1 mV 3.0 V DC typical 1000 V DC or 750 V AC RMS 1000 V 600 V 300 V
7.	Battery Test Resolution Loaded Current  Overload Protection	1.5 V, 9 V $\pm$ (3.5 % rdg + 2 dgts) 1 mV, 10 mV 150 mA typical for 1.5 V range, 5 mA typical for 9 V range 1000 V DC or 750 V AC RMS on 9 V range, on VW input 315 mA/1000 V fast blow ceramic fuse on 1.5 V range, on mA input

8.	Non-Contact Voltage Indicator	Sense voltage 70 V to 600 V AC
9.	Polarity	Automatic, positive implied, negative polarity indication
10.	Capacitance	1 $\mu$ F to 200 $\mu$ F (with accuracy $\pm 2.5\%$ )

## 2. General Specifications:

S. No.	Specifications	Specifications Values
1.	Warranty	1 year minimum
2.	Accessories	Pair of test leads, fuse 315 mA/1000, battery (installed), Holster with magnetic hanging strap Carrying Case, Test Lead Kit, , Test Lead Set with alligator clips.
3.	Safety/Surge protection	Category 3 600 V of IEC 61010
4.	Display	Digital: 6000 counts with updates 4/sec
5.	Low Battery Indication	when the battery voltage drops below the operating level, it should be visible on display.
6.	Battery	200 hours typical with carbon-zinc
7.	Weight	Should not weigh more than 500 g including battery
8.	Humidity	0 % to 90 % at 35 °C
9.	Temperature	Operating: -10 °C to +50 °C Storage: -40 °C to +60 °C
10.	Battery type and Battery life	Alkaline: 400 hours typical, without backlight
11.	IP rating (dust and water protection)	IP42
12.	Calibration Certificate	required