

Digital Multimeter

- Measurement of voltage with the elimination of interference and induced voltages
- Resistance Measurement 60 M ohm
- Instrument should have the facility of Continuity Measurement.
- Capacitance Measurement 6000 μ f
- Temperature Measurement 760 deg Celsius
- backlit display
- Integrated flashlight
- Bluetooth communication
- Measurement Voltage in the range AC & DC – 1000 V
- Measurement Current in the range AC & DC -10A
- The Display should Clear & big to see for the results.
- The backlit display must be able to switch ON and OFF from a single button from the front console.
- Storage Temperature: -20 Deg.C to 60 Deg.C.
- Memory available in mobile application
- AC+DC Measurement
- Relative measurement
- Safety Compliance: should conform to safety standard EN 61010-1 for instrument
- Environmental Protection Instrument should be rated.
- Instrument should have compliance to following safety standards EN 61010-1

1	AC/DC Current Measurement	
1.1	Range	0-10.000A
1.2	Accuracy	$\pm 1\%$ rdg.+3dgt
1.3	Resolution	0.1uA
1.4		20A for 30 sec max
2	AC Voltage Measurement	
2.1	Range	0-1000.0V
2.2	Accuracy	$\pm 1\%$ rdg.+30dgt.
2.3	Resolution	0.001 V
2.4	DC Voltage Measurement	
2.5	Range	0-1000.0V
2.6	Accuracy	$\pm 1\%$ rdg.+30dgt.
2.7	Resolution	0.001 V
3	Resistance Measurement	
3.1	Range	0-60.00M Ω
3.2	Accuracy	$\pm 1.5\%$ rdg.+5dgt.
3.3	Resolution	0.1 Ω
4	Continuity Measurement	
		Buzzer sound less than approx.30 Ω
5	Capacitance Measurement	
5.1	Range	6000 μ F
5.2	Accuracy	$\pm 3.0\%$ rdg. +5 dgt.
5.3	Resolution	0.01nF
6	Temperature Measurement	
6.1	Range	-20.0 to 760.0 $^{\circ}$ C (-4.0...+1400 $^{\circ}$ F)

6.2	Accuracy	$\pm 1.0\% \text{ m.v.} + 5^{\circ}\text{C}$ ($\pm (1\% \text{ m.v.} + 9^{\circ}\text{F})$)
6.3	Resolution	0.1°C (0.1°F)
7	Frequency Characteristic	
7.1	Frequency	9.999kHz
7.2	Accuracy	$\pm (1.0\% \text{ m.v.} + 5 \text{ digit})$
8	Duty Cycle measurement	20.0...80.0%
8.1	Accuracy	$\pm (1.2\% \text{ m.v.} + 2 \text{ digits})$
8.2	Resolution	0.1%
9	Display	6000 count; 4 digits with backlit with bar graph
10	Range switching	Auto/manual
11	Sampling rate	3 times/sec
12	Over Range Indication	OL displayed
13	Functions	Auto power save, Data hold, Battery life warning
14	Max -Min & Avg	Max, Min & Avg selection
15	Peak Hold	Peal Hold selection
16	Diode Test	$I = 1 \text{ mA}$, $U_0 < 3 \text{ V DC}$
17	Measurement categories (EN 61010)	CAT IV 600 V / CAT III 1000 V
18	Protection Class	IP67
19	Safety Standards	EN61010-1
20	Storage temperature	-20 to 60 degree Centigrade
21	Power Supply	4 x AAA 1.5 V battery 4 x AAA NiMH 1.2 V rechargeable battery
22	Weight max.	371g