

## Digital Multimeter

- Resistance Measurement 50 M ohm
- Instrument should have the facility of Continuity Measurement.
- Capacitance Measurement 10mf
- Temperature Measurement 1000 deg Celsius
- backlit display
- it is possible to transfer results from the meter's memory to a computer program and analyse these results further
- Measurement Voltage in the range AC & DC – 1000 V
- Accurate voltage measurement while eliminating high-frequency interference generated by the operation of electronic machines and devices
- The possibility of presenting measurement results of the recorder in the graphical form of the trend - the Trend Capture function
- The possibility of measuring the DC and AC component as the function of voltage measurement
- Measurement Current in the range AC & DC -10A
- The Display should be Clear & big to see for the results.
- Dedicated lithium-polymer battery allowing for long-term operation of the device
- Real-time clock that allows adding date and time of a measurement to each sample
- A dedicated charger and power supply for charging the battery without removing it included in the set
- HELP function to quickly explain the meaning of a given measuring function and buttons
- Saving the results of fast 1 ms waveforms in the PEAK value measurement function
- Recording - Possibility of quick detection of irregularities by recording up to 10,000 measurement results
- over 14 measurement functions, including AC / DC voltage measurement, AC / DC current measurement, resistance, capacity, temperature, pulse width, fill factor, frequency
- the relative REL measurement function allows, among others, elimination of resistance values of test leads
- True RMS for AC voltage and current allows to measure the effective value of distorted waveforms
- Bluetooth function - The possibility of sending measurement results in real time on mobile devices with Android system and to the computer application
- Device Memory – 2000
- Inactivity time for triggering Auto-Off function – 5 to 60 Minutes
- 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.
- 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

<b>1</b>	<b>AC Current Measurement</b>	
1.1	Range	0-10A
1.2	Accuracy1	$\pm 0.6\%$ rdg.+25dgt
1.3	Resolution	0.01uA
1.4		20A for 30 sec max
<b>2</b>	<b>DC Current Measurement</b>	
2.1	Range	0-10A
2.2	Accuracy	$\pm 0.1\%$ rdg.+20dgt
2.3	Resolution	0.01uA
		20A for 30 sec max
<b>3</b>	<b>AC Voltage Measurement</b>	
3.1	Range	0-1000V
3.2	Accuracy	$\pm 0.3\%$ rdg.+25dgt.
3.3	Resolution	0.001mV
<b>4</b>	<b>DC Voltage Measurement</b>	
4.1	Range	0-1000V
4.2	Accuracy	$\pm 0.025\%$ rdg.+5dgt.
4.3	Resolution	0.001mV
<b>5</b>	<b>Resistance Measurement</b>	
5.1	Range	0-50M $\Omega$ , Auto range with Seven Range
5.2	Accuracy	$\pm 0.3\%$ rdg.+4dgt.
5.3	Resolution	0.001 $\Omega$
<b>6</b>	<b>Continuity Measurement</b>	
		Buzzer sound less than approx.25 $\Omega$
<b>7</b>	<b>Capacitance Measurement</b>	
7.1	Range	10mF
7.2	Accuracy	$\pm 2\%$ m.v. +40 dgt.
7.3	Resolution	0.001nF
<b>8</b>	<b>Temperature Measurement</b>	
8.1	Range	-50.0 to 1000.0 <sup>0</sup> C (-58.0...+1832.0 <sup>0</sup> F)
8.2	Accuracy	$\pm 1.00\%$ m.v.+2.5 0C ( $\pm (1\% \text{ m.v.} + 2.5^{\circ}\text{F})$ )
8.3	Resolution	0.10C (0.1 <sup>0</sup> F)
<b>9</b>	<b>Frequency Characteristic</b>	
9.1	Frequency	10MHz
9.2	Accuracy	$\pm (0.01\% \text{ m.v.} + 10 \text{ digit})$
9.3	Resolution	0.001Hz
<b>10</b>	<b>Duty Cycle measurement</b>	0.10...99.90%
10.1	Accuracy	$\pm (1.2\% \text{ m.v.} + 2 \text{ digits})$
10.2	Resolution	0.01%
11	Current loop 4-20 mA	-25.00...125.00% with accuracy of $\pm 50$ digits
12	Display	50000 count; . backlit LCD with a scale
13	Range switching	Auto/manual
14	Sampling rate	20 times/sec

15	Over Range Indication	OL displayed
16	Crest Factor	$\leq 3$ at full scale up to 500V decreasing linearly to $\leq 1,5$ at 1000V
17	Storage capacitance	2000
18	Functions	Auto power save, Data hold, Battery life warning
19	Max -Min	Max Min & Avg selection
20	Peak Hold	Peal Hold selection
21	Diode Test	$I=0,9\text{mA}$ , $U_0=3.2\text{V DC}$
22	Measurement categories (EN 61010)	CAT IV 600 V / CAT III 1000 V
23	Protection Class	IP67
24	Safety Standards	EN61010-1
25	Storage temperature	-20 to 60 degree Centigrade
26	Power Supply	Li-Pol 7.2 V battery pack
27	Weight max.	605g