### Technical Specifications for Digital Multimeter.

#### A:SPECIFICATION:

#### Meter should measure:

- DC current measurement and AC current.
- AC/DC voltage measurement up to 600V.
- Resistance measurement and continuity test:
  - continuity test with acoustic signalling (beeper
- Temperature measurement (Fahrenheit and Celsius units).
- Frequency measurement.
- Capacitance measurement.
- Diode test.
- Duty cycle.

### Additionally:

- auto ranging/manual range selection,
- -"DATA HOLD" function, for holding measured values,
- backlit LCD,
- "REL" function,
- over range indication,
- Display 3 1/8 digits (5000 max)
- "AUTO-OFF" function.

#### **AC Current measurement:**

Range	Resolution	Accuracy
400.0μΑ	0.1μΑ	±(1.5% m.v + 5 digits)
4.000μΑ	1μΑ	
40.00 mA	0.01 mA	±(1.8% m.v + 5 digits)
400.00 mA	0.1mA	
4.000A	0.001A	±(3.0% m.v + 7 digits)
10.00A	0.01A	

#### DC Current measurement:

Range	Resolution	Accuracy
400.0μΑ	0.1μΑ	±(1.0% m.v + 3 digits)
4.000μΑ	1μΑ	
40.00 mA	0.01 mA	±(1.5% m.v + 3 digits)
400.00 mA	0.1mA	
4.000A	0.001A	±(2.5% m.v + 5 digits)
10.00A	0.01A	

# Frequency measurement:

Range	Resolution	Accuracy
5.000 Hz	0.001 Hz	±(1.5% m.v + 5 digits)
50.00 Hz	0.01 Hz	
500.0 Hz	0.1 Hz	
5.000 KHz	0.001 KHz	±(1.2% m.v + 3 digits)
50.00 KHz	0.01 KHz	
500.0 KHz	0.1 KHz	
5.000 MHz	0.001 MHz	±(1.5% m.v + 4 digits)
10.00 MHz	0.01 MHz	

# AC Voltage measurement:

Range	Resolution	Accuracy
400.0mV	0.1mV	±(1.5% m.v + 70 digits)
4.000V	0.001V	±(1.2% m.v + 3 digits)
40.00V	0.01V	±(1.5% m.v + 3 digits)
400.0V	0.1V	
600.0V	1V	±(2% m.v + 4 digits)

# DC Voltage measurement:

Range	Resolution	Accuracy
400.0mV	0.1mV	±(0.5% m.v + 2 digits)
4.000V	0.001V	
40.00V	0.01V	±(1.2% m.v + 2 digits)
400.0V	0.1V	
600.0V	1V	±(1.5% m.v + 2 digits)

## Resistance measurement:

Range	Resolution	Accuracy
400.0Ω	0.1Ω	±(1.2% m.v + 4 digits)
4.000ΚΩ	0.001ΚΩ	±(1.0% m.v + 2 digits)
40.00ΚΩ	0.01ΚΩ	±(1.2% m.v + 2 digits)
400.0ΚΩ	0.1ΚΩ	
4.000ΜΩ	0.001ΜΩ	
40.00ΜΩ	0.01ΜΩ	±(2.0% m.v + 3 digits)

# Capacitance measurement:

Range	Resolution	Accuracy
40.00nF	0.01 nF	±(5% m.v + 7 digits)
400.0nF	0.1 nF	
4.000μF	0.001 μF	±(3% m.v + 5 digits)
40.00μF	0.01 μF	
100.0μF	0.1 μF	±(5% m.v + 5 digits)

# Temperature measurement:

Range	Resolution	Accuracy
-20.0760.0°C	1°C	±(3% m.v + 5°C)
-4.01400°F	1°F	±(3% m.v + 5°F)

# Duty Cycle measurement:

Range	Resolution	Accuracy
0.199.9%	0.1%	±(1.2% m.v + 2 digits)

### Electric security:

- measurement category CAT II 600V acc. to EN 61010-1:2004

- protection class acc. to EN 60529 IP40

#### Other technical data:

power supply
 display
 9V battery type 6LR61
 5000 counts, backlit LCD

- continuity test I<0,3mA, sound signal for R<50 $\Omega$ 

- diode test I=0,3mA, U =1,5V DC 0

- over range indication OL displayed

- sampling rate 2 times per second - input impedance 7.8MΩ (V DC and V AC)

- auto power OFF approx. 30 min.

- dimensions 138 x 68 x 37 mm - weight 210 g

- accordance with following standards EN 61010-1:2004 EN 61010-2-032

- quality standard ISO 9001

### Rated operational conditions:

- operating temperature 0...+50°C
- storage temperature -20...+60°C
- operating humidity max 80%

### B: SERVICE AFTER SALE:

Bidder will have to submit the documentary evidences of having established mechanism for prompt services as & when required.