

## BS1501

### 3 1/2 Digits Multi Function Multimeter

#### Features:

- 3 1/2 digits LCD display
- One rotary switch operation
- DC voltage 200mV to 600V
- AC voltage 200V/600V
- DC current 2000uA to 10A
- Resistance 200Ω to 20MΩ
- Diode test
- Continuity test
- Transistor test
- Auto power off
- Data hold
- Conform to IEC1010/EN61010-1, CE-EMC & LVD CATII 600V



#### General Specifications

Display	: 3 1/2 digits LCD with max. reading of 1999.
Polarity	: Automatic, (-) negative polarity indication.
Zero adjustment	: Automatic.
Over range indication	: Only the MSD “1” is displayed.
Power	: Single, standard 9 volt battery NEDA 1604, JIS 006P, IEC6F22.
Dimension	: 104 (W) x 145.5 (H) x 56 (D) mm.
Weight	: Approx. 320 g (including battery).

## Electrical Specification

Accuracies are  $\pm$ (% of reading + number of least significant digits) at  $23^{\circ}\text{C}\pm 5^{\circ}\text{C}$ , less than 75%RH

### DC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
200mV	0.1mV	$\pm(0.8\% \text{Read.} + 2\text{dgt})$	10M $\Omega$	250V DC/AC rms
2000mV	1mV			600V DC/AC rms
20V	0.01V			
200V	0.1V			
600V	1V			

### AC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
200V	0.1V	$\pm(1.5\% \text{Read.} + 5\text{dgt})$	10M $\Omega$	600V DC/AC rms
600V	1V			

**Frequency range: 40-400Hz**

### DC Current Measurement

Range	Resolution	Accuracy	Voltage drop	Overload Protection
2000 $\mu\text{A}$	1 $\mu\text{A}$	$\pm(1.0\% \text{Read.} + 2\text{dgt})$	200mV	Fast 200mA/250V Fuse
20mA	0.01mA			
200mA	0.1mA			
10A	0.01A	$\pm(1.5\% \text{Read.} + 5\text{dgt})$		Unfused 10A 15sec.

**Resistance Measurement**

Range	Resolution	Accuracy	Open circuit voltage	Overload Protection
200Ω	0.1Ω	±(1.0% Read. + 2dgt)	<2.8V	250V DC/AC rms <30 sec.
2000Ω	1Ω			
20kΩ	0.01kΩ			
200kΩ	0.1kΩ			
2000kΩ	1kΩ			
20MΩ	0.01MΩ	±(1.2% Read. + 5dgt)		

**Diode Test**

Range	Accuracy	Open circuit voltage	Overload Protection
▶+	Approx. 1mA	2.8V – 3.0V	250V DC/AC rms <30 sec.

**Continuity Test**

Range	Buzzer sounds when resistance value < 100Ω	Open circuit voltage	Overload Protection
•)))		2.8V – 3.0V	250V DC/AC rms <30 sec.

**Transistor Test**

Range	hFE value	Base current	Open circuit voltage	Overload Protection
hFE	0-1000	Approx. 10μA	Approx. 3.0V	250V DC/AC rms <30 sec.

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