

**BS1502****3 1/2 Digits Multimeter with TTL Logic and Frequency Measurement**

## Features:

- 3 1/2 digits LCD display
- One rotary switch operation
- DC voltage 200mV to 600V
- AC voltage 200V/600V
- DC current 200mA to 10A
- Resistance 200Ω to 20MΩ
- Square waveform output
- Frequency measurement
- TTL logic probe
- Diode/Continuity test
- Transistor test
- Data hold
- Separate battery compartment
- 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 ±(% of reading + number of least significant digits) at 23°C±5°C, less than 75%RH

DC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
200mV	0.1mV	±(0.8% Read. + 2dgt)	10MΩ	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	±(1.5% Read. + 5dgt)	10MΩ	600V DC/AC rms
600V	1V			

Frequency range: 40-400Hz

DC Current Measurement

Range	Resolution	Accuracy	Voltage drop	Overload Protection
200mA	0.1mA	±(1.0% Read. + 2dgt)	200mV	Fast 200mA/250V Fuse
10A	0.01A	±(1.5% Read. + 5dgt)		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			
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.

**Logic Test**

Range	Hi	Lo	HI-Lo	Overload Protection
TTL	2.0V	0.8V	0.8V – 2.0V	250V DC/AC rms <30 sec.

**Frequency Test**

<b>Range</b>	<b>Resolution</b>	<b>Accuracy</b>	<b>Overload Protection</b>
20kHz	0.01kHz	$\pm(1.2\% \text{ Read.} + 5\text{dgt})$	600V DC/AC rms <30 sec.

**Square waveform output**

<b>Range</b>	<b>Overload Protection</b>
50Hz square waveform output	250V DC/AC rms <30 sec.

**Transistor Test**

<b>Range</b>	<b>hFE value</b>	<b>Base current</b>	<b>Open circuit voltage</b>	<b>Overload Protection</b>
hFE	0-1000	Approx. 10 $\mu$ A	Approx. 3.0V	250V DC/AC rms <30 sec.

**CALTEK INDUSTRIAL (HONG KONG) LIMITED**[www.bstcaltek.com](http://www.bstcaltek.com)Hong Kong Office

Address: Unit 11 10/F, Kwai Cheong Center, 50 Kwai Cheong Road, Kwai Chung, N.T., Hong Kong  
Email: [caltek@caltek.com.hk](mailto:caltek@caltek.com.hk) Tel: (852) 2401-1222 Fax: (852) 2420-3472

Singapore Office

Level 15, Suite 27, Prudential Tower, 30 Cecil Street, Singapore 049712  
Email: [caltek\\_sg@caltek.com.hk](mailto:caltek_sg@caltek.com.hk) Tel: (65) 6232-2903 Fax: (65) 6232-2888