

BS501

3 3/4 Digits Auto Range DMM with Temperature

BS501 is an auto range digital multimeter, which can measure AC/DC voltage up to 600V, resistance, continuity, diode and temperature (C & F).

The large 3 1/2 digits display LCD display (2000 counts) with permits an easy readability also in dim light conditions.

The instrument is complying with IEC/EN61010-1, CAT IV 600V and it is designed for required high safety and accuracy measurement both in domestic and industrial environments use.

Other features are Data and MAX hold function to temporary freeze reading as reference. Those functions are important in research and industrial environment use.

Features:

- 3 1/2 Digits 2000 counts LCD display with backlight
- DC voltage 200mV to 600V
- AC voltage 2V to 600V
- Resistance 200Ohm to 20MOhm
- Diode and Continuity Test
- Temperature -40C to +800C (-40F ~ +1382F)
- DATA/MAX hold
- Auto Power Off
- Conform to IEC1010/EN61010-1, CE-EMC & LVD
CATIV 600V/ CATIII1000V





Accessories:

- Test Lead set x 1
- Instruction manual x 1
- Carrying case x 1
- 1.5V AAA batteries x 2

Optional Accessories:

- Adapter for type K thermocouple x 1
- Type K thermocouple x 1

GENERAL SPEIFICATION

Display	: 3 3/4 digits LCD with maximum reading of 2000.
Sampling rate	: 2.5 samples/second
Polarity	: Automatic, (-) negative polarity indication.
Zero adjustment	: Automatic.
Over range indication	: Only the message "OL" or "-OL" is displayed.
Power	: Two, 1.5V AAA MN2200 LR03 AM4 Batteries
Battery Life	: Typical 220hours
Dimension	: 88 (W) x 163 (H) x 48 (D) mm.
Weight	: Approx. 280 g (including battery).

TECHNICAL SPECIFICATION

Accuracies are \pm (% of reading + number of least significant digits), at $23 \pm 5^{\circ}\text{C}$, less than 80%RH

DC voltage measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
200.0mV	0.1mV	$\pm(0.8 + 1)$	10M Ω	600V DC/AC rms
2.000V	0.001V			
20.00V	0.01V			
200.0V	0.1V			
600.0V	1V	$\pm(1.0\%+2)$		

AC voltage measurement

Range	Resolution	Accuracy (40÷200Hz)	Input Impedance	Overload Protection
200.0mV	0.1mV	N/A	10M Ω	600V DC/AC rms
2.000V	0.001V	$\pm(1.5+ 3)$		
20.00V	0.01V			
200.0V	0.1V			
600V	1V			

Resistance measurement

Range	Resolution	Accuracy	Max Open Circuit Voltage	Overload protection
200.0 Ω	0.1 Ω	$\pm(1.0 + 8)$	Approx. 3.0V	600V DC/AC rms <30sec
2.000k Ω	0.001k Ω	$\pm(1.0 + 3)$		
20.00k Ω	0.01k Ω			
200.0k Ω	0.1k Ω			
2.000M Ω	0.001M Ω			
20.00M Ω	0.01M Ω	$\pm(3.0 + 3)$		



Temperature measurement

Range	Resolution	Accuracy	Overload protection
-40°C ~ 1°C	1°C	±5°C	600VDC/AC rms (<30sec.)
0°C ~ 800°C		±(2.0%+ 3)	
-40°F ~ 31°F	1°F	±9°F	
32°F ~ 1382°F		±(2.0%+ 5)	

Using optional external thermocouple & adaptor
The tolerance of temp probe excluded.

Continuity Test

Range	Buzzer	Max. Open Voltage	Overload Protection
∞)	less than 120Ω	Approx. 1.5V	600V DC/AC rms <30sec

Diode Test

Range	Resolution	Max. Open Voltage	Overload Protection
➔	1mV	Approx. 1.5V	600V DC/AC rms <30sec

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Due to our policy of continual product development we reserve the right to amend the specifications of all mentioned products without notice.