

BS2703**3 3/4 Digits Professional Auto Range Multimeter with Capacitance**

Features:

- 3 3/4 Digits LCD display
- DC Voltage 400mV to 600V
- AC Voltage 400mV to 600V
- DC Current 400 μ A to 10A
- AC Current 400 μ A to 10A
- Resistance 400 Ω to 40M Ω
- Capacitance 40nF to 100 μ F
- Frequency 10Hz to 5MHz
- Duty Cycle 20% to 80%
- Continuity/ Diode test
- Relative Measurement
- Low Battery Warning
- Auto Power Off
- Data Hold
- CAT II 600V CE-EMC & LVD (Pending)

**General Specifications**

Display	: 3 3/4 digits LCD with max. reading of 3999.
Polarity	: Automatic, (-) negative polarity indication.
Zero adjustment	: Automatic.
Over range indication	: Only the MSD "OL" is displayed.
Power	: Single, standard 9 volt battery NEDA 1604, JIS 006P, IEC6F22.
Dimension	: 70 (W) x 140 (H) x 38 (D) mm.
Weight	: Approx. 350 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
400mV	0.1mV	$\pm(0.8\% \text{ Read.} + 2\text{dgt})$	10M Ω	600V DC/AC rms
4V	0.001V	$\pm(0.5\% \text{ Read.} + 3\text{dgt})$		
40V	0.01V			
400V	0.1V			
600V	1V			

AC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
400mV	0.1mV	$\pm(1.5\% \text{ Read.} + 5\text{dgt})$	10M Ω	600V DC/AC rms
4V	0.001V	$\pm(1.2\% \text{ Read.} + 3\text{dgt})$		
40V	0.01V			
400V	0.1V			
600V	1V			

Frequency range: 40-400Hz

DC Current Measurement

Range	Resolution	Accuracy	Voltage drop	Overload Protection
400 μA	0.1 μA	$\pm(0.8\% \text{ Read.} + 2\text{dgt})$	400mV	Fast 400mA/250V Fuse
4000 μA	1 μA			
40mA	0.01mA			
400mA	0.1mA			
10A	0.01A	$\pm(1.5\% \text{ Read.} + 5\text{dgt})$		Fast 10A/250V Fuse

AC Current Measurement

Range	Resolution	Accuracy	Voltage drop	Overload Protection
400 μ A	0.1 μ A	$\pm(1.5\%$ Read. + 5dgt)	400mV	Fast 400mA/250V Fuse
4000 μ A	1 μ A			
40mA	0.01mA			
400mA	0.1mA			
10A	0.01A	$\pm(2.0\%$ Read. + 5dgt)		Fast 10A/250V Fuse

Frequency range: 40-400Hz
Resistance Measurement

Range	Resolution	Accuracy	Open circuit voltage	Overload Protection
400 Ω	0.1 Ω	$\pm(0.8\%$ Read. + 2dgt)	<700mV	250V DC/AC rms <30 sec.
4k Ω	0.001k Ω			
40k Ω	0.01k Ω			
400k Ω	0.1k Ω			
4M Ω	0.001M Ω			
40M Ω	0.01M Ω	$\pm(2.0\%$ Read. + 2dgt)		

Diode Test

Range	Accuracy	Open circuit voltage	Overload Protection
\blacktriangleright	Approx. 0.6mA	Approx. 1.5V	250V DC/AC rms <30 sec.

Continuity Test

Range		Open circuit voltage	Overload Protection
	Buzzer sounds when resistance value < 50 Ω		
$\cdot)))$		Approx. 0.5V	250V DC/AC rms <30 sec.

**Capacitance Measurement**

Range	Resolution	Accuracy	Overload Protection
40nF	0.01nF	$\pm(3.0\% \text{ Read.} + 5\text{dgt})$	250V DC/AC rms <30 sec.
400nF	0.1nF		
4 μ F	0.001 μ F		
40 μ F	0.01 μ F		
100 μ F	0.1 μ F	$\pm(3.5\% \text{ Read.} + 5\text{dgt})$	

Frequency Measurement

Range	Resolution	Accuracy	Overload Protection
10Hz	0.01Hz	$\pm(1.5\% \text{ Read.} + 5\text{dgt})$	250V DC/AC rms <30 sec.
100Hz	0.1Hz		
1000Hz	1Hz		
10kHz	0.01kHz		
100kHz	0.1kHz		
1000kHz	1kHz		
5MHz	0.001MHz		

Duty Cycle Measurement

Range	Resolution	Accuracy	Overload Protection
20 – 80%	0.1%	$\pm(3.5\% \text{ Read.} + 5\text{dgt})$	250V DC/AC rms <30 sec.

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