

# **BS1604 3 3/4 Digits Professional Auto Range Multimeter with Duty Cycle, Capacitance and Frequency Measurement**

## **Features:**

- 3 3/4 Digits LCD display
- One rotary switch operation
- DC Voltage 400mV to 600V
- AC Voltage 4V to 600V
- DC Current 400 $\mu$ A to 10A
- AC Current 400 $\mu$ A to 10A
- Resistance 400 $\Omega$  to 40M $\Omega$
- Frequency 5Hz to 5MHz
- Capacitance 50nF to 100 $\mu$ F
- Duty Cycle 20% to 80%
- Diode test
- Continuity Test
- Auto Power Off
- Data Hold
- Conform to IEC1010/EN61010-1, CE-EMC & LVD  
CATII 600V



## **Accessories:**

- User's manual
- Test lead (CT-4A)
- Holster

## **Battery required:**

- 9V battery  
(Not included in accessories)

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

## GENERAL SPECIFICATION

Display	: 3 3/4 digit LCD with maximum reading of 3999.
Polarity	: Automatic, (-) negative polarity indication.
Zero adjustment	: Automatic.
Over range indication	: Only the message "OL" is displayed.
Power	: Single, standard 9 volt battery NEDA 1604, JIS 006P, IEC5F22 or equivalent.
Dimension	: 83 (W) x 143 (H) x 37 (D) mm.
Weight	: Approx. 370 g (including battery and packaging).

## TECHNICAL SPECIFICATION

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

	Range	Resolution	Accuracy	Input Impedance	Overload Protection
<b>DC Voltage</b>	400mV	0.1mV	$\pm(0.8\% + 2)$	10M $\Omega$	600V DC/AC rms
	40V	1mV	$\pm(0.8\% + 3)$		
	40V	0.01V			
	400V	0.1V			
	600V	1V			

	Range	Resolution	Accuracy	Frequency Response	Input Impedance
					10M $\Omega$
<b>AC Voltage</b>	4V	0.001V	$\pm(1.2\% + 3)$	40-400 Hz	<b>Overload Protection</b>
	40V	0.01V			600V DC/AC rms
	400V	0.1V			
	600V	1V	$\pm(1.5\% + 5)$	40-200 Hz	

	Range	Resolution	Accuracy	Volt. drop	Overload Protection
<b>DC Current</b>	400 $\mu$ A	0.1 $\mu$ A	$\pm(1.0\% + 2)$	400mV	Fast 400mA/250V Fused
	4000 $\mu$ A	1 $\mu$ A			
	40mA	0.01mA			
	400mA	0.1mA		4V	

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	10A	0.01A	$\pm(1.2\% + 5)$	200mV	Unfused
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	Range	Resolution	Accuracy	Open circuit volt.	Overload Protection
<b>Resistance</b>	400 $\Omega$	0.1 $\Omega$	$\pm(1.0\% + 2)$	<2.8V	250V DC/AC rms <30sec
	4000 $\Omega$	1 $\Omega$			
	40k $\Omega$	0.01k $\Omega$			
	400k $\Omega$	0.1k $\Omega$			
	4M $\Omega$	0.001M $\Omega$			
	40M $\Omega$	0.01M $\Omega$	$\pm(2.0\% + 2)$		

	Forward Volt. Drop	Test current	Open circuit voltage	Overload Protection
<b>Diode Test</b>	Approx. 1V	Approx. 0.6mA	1.5V	250VDC/AC rms <30sec

	Sound level	Test current	Open circuit voltage	Overload Protection
<b>Continuity Test</b>	When resistance value $\leq 50\Omega$	Approx. 1mA	Approx 0.5V	250VDC/AC rms <30sec

	Range	Resolution	Accuracy	Overload Protection
<b>Capacitance</b>	50nF	0.01nF	$\pm(3.0\% + 5)$	250V DC/AC rms <30sec
	500nF	0.1nF		
	5 $\mu$ F	0.001 $\mu$ F		
	50 $\mu$ F	0.01 $\mu$ F		
	100 $\mu$ F	0.1 $\mu$ F (30sec.)	$\pm(3.5\% + 5)$	

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	<b>Range</b>	<b>Resolution</b>	<b>Accuracy</b>	<b>Overload Protection</b>
<b>Frequency</b>	5.000Hz	0.001Hz	±(1.5% + 5) Vpp = 500mV	250V DC/AC rms <30sec
	50.00Hz	0.01Hz		
	500.0Hz	0.1Hz		
	5.000kHz	1Hz		
	50.00kHz	10Hz		
	500.0kHz	100Hz		
	5.000MHz	1000Hz		

<b>Duty Cycle</b>	<b>Range</b>	<b>Resolution</b>	<b>Overload Protection</b>
	20% -80%	0.1%	250V DC/AC rms <30sec

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