

BS3302

3 3/4 Digits Auto Range High Safety Pen Type Multimeter with LED Display

Features:

- 3 3/4 Counts LCD display
- LED Voltage Display
24V-120V-230V-400V-600V
- DC Voltage 400mV to 600V
- AC Voltage 4V to 600V
- Resistance 400Ω to 20MΩ
- Frequency 9.999Hz to 99.99kHz
- Duty Cycle 20% to 80%
- Continuity/ Diode test
- Flash Light
- Low Battery Warning
- Auto Power Off
- Data Hold
- CAT III 600V CE-EMC & LVD



Easy to Use



Flash Light



Ideal for Electrical Checking

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	: 2 batteries 1.5V AAA UM4
Dimension	: 55 (W) x 600 (H) x 31 (D) mm.
Weight	: Approx. 280 g (including batteries).

Electrical Specification

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

DC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
400mV	0.1mV	±(1.0% Read. +5dgt)	10MΩ	600V DC/AC rms
4V	0.001V	±(1.0% Read. +3dgt)		
40V	0.01V			
400V	0.1V			
600V	1V			

AC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
4V	0.001V	±(1.5% Read. +5dgt)	10MΩ	600V DC/AC rms
40V	0.01V			
400V	0.1V	±(2.0% Read. +5dgt)		
600V	1V			

Frequency range: 40-400Hz

LED Indicators

At the top of the instrument, there are six LEDs which will be turned on according to the following conditions.

LED - ON	Condition	
24V (+)	DC	9V or above
	AC	9V or above
24V (-)	DC	9V or above
	AC	9V or above
120V	AC	90V or above
	DC	90V or above
230V	AC	160V or above
	DC	270V or above
400V	AC	350V or above
	DC	470V or above
600V	AC	540V or above
	DC	740V or above

Resistance Measurement

Range	Resolution	Accuracy	Open circuit voltage	Overload Protection
400Ω	0.1Ω	±(1.2% Read. + 5dgt)	<700mV	250V DC/AC rms <30 sec.
4kΩ	0.001kΩ			
40kΩ	0.01kΩ			
400kΩ	0.1kΩ			
4MΩ	0.001MΩ	±(1.5% Read. + 5dgt)		
40MΩ	0.01MΩ	±(2.5% Read. + 5dgt)		

Diode Test

Range	Accuracy	Open circuit voltage	Overload Protection
►+	Approx. 0.2mA	Approx. 1.5V	250V DC/AC rms <30 sec.

Continuity Test

Range	Buzzer sounds when resistance	Open circuit voltage	Overload Protection
•)))	value < 100Ω	Approx. 0.5V	250V DC/AC rms <30 sec.

Frequency Measurement

Range	Resolution	Accuracy	Overload Protection
9.999Hz	0.001Hz	$\pm(2.5\% \text{ Read.} + 5\text{dgt})$	600V DC/AC rms <30 sec.
99.99Hz	0.01Hz		
999.9Hz	0.1Hz		
9.999kHz	0.001kHz		
99.99kHz	0.01kHz		
999.9kHz	0.1kHz		
9.999MHz	0.001MHz		

Note: Never exceed voltage limits listed below (Voltage Limits for Frequency and Duty Cycle)

Duty Cycle Measurement

Range	Resolution	Accuracy	Overload Protection
20 – 80%	0.1%	$\pm(3.5\% \text{ Read.} + 5\text{dgt})$	600V DC/AC rms <30 sec.

Note: Never exceed voltage limits listed below (Voltage Limits for Frequency and Duty Cycle)

Voltage Limits for Frequency and Duty Cycle

Working voltage	Frequency
$V_{\text{MIN}} \geq 1.5\text{Vp-p}$	40 – 400Hz
$V_{\text{MAX}} \leq 400\text{Vrms}$	
$V_{\text{MIN}} \geq 1.5\text{Vp-p}$	400 – 900Hz
$V_{\text{MAX}} \leq 10\text{Vp-p}$	
$V_{\text{MIN}} \geq 3.0\text{Vp-p}$	900Hz – 10kHz
$V_{\text{MAX}} \leq 5\text{Vp-p}$	

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