

BS3605**3 1/2 digits multimeter Transistor, Temperature, Frequency and Capacitance supplied with temperature probe**

Features:

- 3 1/2 Digits large LCD display
- DC Voltage 200mV to 600V
- AC Voltage 2V to 600V
- DC Current 2mA to 20A
- AC Current 20mA to 20A
- Resistance 200Ω to 200MΩ
- Capacitance 2nF to 20μF
- Frequency 20kHz
- Temperature Measurement
- Diode test
- Continuity test
- Transistor test
- Low Battery Warning
- Auto Power Off
- Data Hold
- 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	: 94 (W) x 205 (H) x 62 (D) mm.
Weight	: Approx. 620 g (including battery).

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
200mV	0.1mV	\pm (0.8% Read. + 1dgt)	10M Ω	250V DC/AC rms
2V	0.001V			600V DC/AC rms
20V	0.01V			
200V	0.1V			
600V	1V			

AC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
2V	0.001V	\pm (0.8% Read. + 3dgt)	10M Ω	600V DC/AC rms
20V	0.01V			
200V	0.1V			
600V	1V	\pm (1.2% Read. + 3dgt)		

Frequency range: 40-400Hz

DC Current Measurement

Range	Resolution	Accuracy	Voltage drop	Overload Protection
2mA	0.001mA	\pm (0.8% Read. + 3dgt)	200mV	Fast 2A/250V Fuse
20mA	0.01mA			
200mA	0.1mA	\pm (1.0% Read. + 3dgt)		Unfused 15sec.
2A	0.001A			
20A	0.01A	\pm (2.0% Read. + 5dgt)		

AC Current Measurement

Range	Resolution	Accuracy	Voltage drop	Overload Protection
20mA	0.01mA	$\pm(1.2\% \text{ Read.} + 3\text{dgt})$	200mV	Fast 2A/250V Fuse
200mA	0.1mA	$\pm(1.5\% \text{ Read.} + 3\text{dgt})$		
2A	0.001A			
20A	0.01A	$\pm(3.0\% \text{ Read.} + 5\text{dgt})$		Unfused 15sec.

Frequency range: 40-400Hz
Resistance Measurement

Range	Resolution	Accuracy	Open circuit voltage	Overload Protection
200 Ω	0.1 Ω	$\pm(0.8\% \text{ Read.} + 2\text{dgt})$	<0.7V	250V DC/AC rms <30 sec
2k Ω	0.001k Ω			
20k Ω	0.01k Ω			
200k Ω	0.1k Ω			
2M Ω	0.001M Ω			
20M Ω	0.01M Ω	$\pm(1.0\% \text{ Read.} + 2\text{dgt})$		
200M Ω	0.1M Ω	$\pm(5.0\% \text{ Read.} + 10\text{dgt})$	<3.0V	

Capacitance Measurement

Range	Resolution	Accuracy	Overload Protection
2nF	0.001nF	$\pm(2.5\% \text{ Read.} + 5\text{dgt})$	250V DC/AC rms <30 sec.
20nF	0.01nF		
200nF	0.1nF		
2 μ F	0.001 μ F		
20 μ F	0.01 μ F		

**Frequency Measurement**

Range	Resolution	Accuracy	Overload Protection
20kHz	0.01kHz	$\pm(1.5\% \text{ Read.} + 5\text{dgt})$ Vmin = 150mV Vmax = 10V	250V DC/AC rms <30 sec.

Diode Test

Range	Accuracy	Open circuit voltage	Overload Protection
▶+	Approx. 1mA	2.8V	250V DC/AC rms <30 sec

Continuity Test

Range	Buzzer sounds when resistance value < 60Ω	Open circuit voltage	Overload Protection
•)))		2.8V	250V DC/AC rms <30 sec

Transistor Test

Range	hFE value	Base current	Open circuit voltage	Overload Protection
hFE	0-1000	Approx. 10μA	Approx. 2.8V	250V DC/AC rms <30 sec.



Temperature Internal Probe

Range	Resolution	Accuracy	Overload Protection
0 – 40°C	1°C	±(3dgt)	250V DC/AC rms <30 sec.

Temperature K-type Probe

Range	Resolution	Accuracy	Overload Protection
-40 – 400°C	1°C	±(0.75% Read. + 3dgt)	250V DC/AC rms <30 sec.
401 – 1000°C		±(2.0% Read. + 5dgt)	

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