

BS1802B**SilkyCase™ Multi Functions DMM with Capacitance, Frequency, Temperature Measurement and LED Backlight**

Features:

- 3 1/2 digits LCD display
- DC voltage 2V to 600V
- AC voltage 200V/600V
- DC current 200mA to 10A (fused)
- Resistance 200Ω to 20MΩ
- Frequency 2kHz
- Capacitance 20uF
- Temperature -40 to 1000°C
- Diode test
- Continuity test
- LED backlight
- Low Battery Warning
- Data hold
- Auto power off
- CAT III 600V CE-EMC & LVD (Pending)

**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	: 80 (W) x 150 (H) x 40 (D) mm.
Weight	: Approx. 320 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
2V	0.001V	\pm (0.8% Read. + 1dgt)	10M Ω	600V DC/AC rms
20V	0.01V			
200V	0.1V			
600V	1V			

AC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
200V	0.1V	\pm (1.5% Read. + 10dgt)	10M Ω	600V DC/AC rms
600V	1V			

Frequency range: 40-400Hz

DC Current Measurement

Range	Resolution	Accuracy	Voltage drop	Overload Protection
200mA	0.1mA	\pm (1.0% Read. + 3dgt)	100mV	Fast 200mA/250V Fuse
10A	0.01A	\pm (2.0% Read. + 5dgt)		Fast 10A/250V Fuse

Resistance Measurement

Range	Resolution	Accuracy	Open circuit voltage	Overload Protection
200 Ω	0.1 Ω	\pm (1.0% Read. + 5dgt)	<0.7V	250V DC/AC rms <30 sec
2k Ω	0.001k Ω			
20k Ω	0.01k Ω			
200k Ω	0.1k Ω			
20M Ω	0.01M Ω	\pm (1.5% Read. + 5dgt)		

**Diode Test**

Range	Accuracy	Open circuit voltage	Overload Protection
▶	Approx. 1mA \pm 0.6mA	2.8V	250V DC/AC rms <30 sec

Continuity Test

Range	Buzzer sounds when resistance value < 650 Ω \pm 20	Open circuit voltage	Overload Protection
•)))		2.8V	250V DC/AC rms <30 sec

Frequency Measurement

Range	Resolution	Accuracy	Overload Protection
10Hz ~2kHz	0.001kHz	\pm (2.0% Read. + 10dgt)	250V DC/AC rms <30 sec

Capacitance Measurement

Range	Resolution	Accuracy	Overload Protection
20 μ F	0.01 μ F	\pm (3.0% Read. + 10dgt)	Fast 200mA/250V Fuse

Temperature K-type Probe

Range	Resolution	Accuracy	Overload Protection
-40 – 400 $^{\circ}$ C	1 $^{\circ}$ C	\pm (1.0% Read. + 3dgt)	Fast 200mA/250V Fuse
401 – 1000 $^{\circ}$ C		\pm (2.0% Read. + 5dgt)	

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