

## BS1802

### SilkyCase™ Multi Functions DMM with Capacitance, Frequency and Temperature Measurement

#### 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
- 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. 300 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
2V	0.001V	$\pm(0.8\% \text{ Read.} + 1\text{dgt})$	10M $\Omega$	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	$\pm(1.5\% \text{ Read.} + 10\text{dgt})$	10M $\Omega$	600V DC/AC rms
600V	1V			

**Frequency range: 40-400Hz**

**DC Current Measurement**

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

**Resistance Measurement**

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

**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 $\Omega$ $\pm$ 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 $\mu$ F	0.01 $\mu$ 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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