

BS1805**SilkyCase™****3 5/6 Digits 6000 Counts Auto Range TRMS Multimeter with Capacitance, Frequency, Duty cycle and Temperature Measurements**

BS1800 is our mellow and hot sell multimeter series. Its appearance has been transformed from traditional into a breakthrough modern elegant resembling double moulded “SilkyCase” design. This series has featured with backlight and variety functions to cover both the manual range BS1801/1802 and auto range BS1803/1804/1805. BS1800 SilkyCase series has been tested to comply with EN61010-1 CATIII 600V CE standard.

BS1805 is a newly launched 6000 Counts Auto Range model come with True RMS measurement for irregular waveform test under AC Measuring environment.

Features:

- 3 5/6 Digits Auto Range Multimeter
- 6000 Counts LCD display
- DC Voltage 600mV to 600V
- TRMS AC Voltage 600mV to 600V
- DC Current 600 μ A to 10A
- TRMS AC Current 600 μ A to 10A
- Resistance 600 Ω to 50M Ω
- Capacitance 60nF to 100 μ F
- Frequency 100Hz to 1MHz
- Temperature Measurement in degrees Centigrade and Fahrenheit
- Continuity/ Diode test
- Duty Cycle test
- Relative Measurement
- LED Backlight
- Low Battery Warning
- Auto Power Off
- Data Hold
- CAT III 600V CE-EMC & LVD (Pending)

General Specifications

Display	: 3 5/6 digits LCD with max. reading of 5999.
Polarity	: Automatic, (-) negative polarity indication.
Zero adjustment	: Automatic.
Over range indication	: Only the MSD "OL" 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±5°C, less than 75%RH

DC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
600mV	0.1mV	±(1.0% Read. +2dgt)	10MΩ	600V DC/AC rms
6V	0.001V			
60V	0.01V			
600V	1V			

TRMS AC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
600mV*	0.1mV	±(1.5% Read. +5dgt)	10MΩ	600V DC/AC rms
6V	0.001V			
60V	0.01V			
600V	1V			

*Only available in manual mode

Frequency range: 50-1kHz

DC Current Measurement

Range	Resolution	Accuracy	Voltage drop	Overload Protection
600μA	0.1μA	±(1.2% Read. + 2dgt)	400mV	Fast 630mA/250V Fuse
6000μA	1μA			
60mA	0.01mA			
600mA	0.1mA			
10A	0.01A	±(1.5% Read. + 5dgt)	200mV	Fast 10A/250V Fuse

TRMS AC Current Measurement

Range	Resolution	Accuracy	Voltage drop	Overload Protection
600μA	0.1μA	±(1.0% Read. + 2dgt)	400mV	Fast 630mA/250V Fuse
6000μA	1μA			
60mA	0.01mA	±(1.2% Read. + 5dgt)		
600mA	0.1mA			
10A	0.01A	±(2.0% Read. + 5dgt)	200mV	Fast 10A/250V Fuse

Frequency range: 40-1kHz

Resistance Measurement

Range	Resolution	Accuracy	Open circuit voltage	Overload Protection
600Ω	0.1Ω	±(1.2% Read. + 5dgt)	Approx. 0.2V	250V DC/AC rms <30 sec.
6kΩ	0.001kΩ			
60kΩ	0.01kΩ			
600kΩ	0.1kΩ			
6MΩ	0.001MΩ			
50MΩ	0.01MΩ	±(2.0% Read. + 5dgt)		

Diode Test

Range	Accuracy	Open circuit voltage	Overload Protection
▶	Approx. 0.6mA	Approx. 1.5V	250V DC/AC rms <30 sec.

Continuity Test

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

**Capacitance Measurement**

Range	Resolution	Accuracy	Overload Protection
60nF	0.01nF	$\pm(3.5\% \text{ Read.} + 5\text{dgt})$	250V DC/AC rms <30 sec.
600nF	0.1nF		
6 μ F	0.001 μ F		
60 μ F	0.01 μ F		
100 μ F	0.1 μ F	$\pm(5.0\% \text{ Read.} + 5\text{dgt})$	

Test Frequency: Approx. 20kHz

Frequency Measurement

Range	Resolution	Accuracy	Input Volt.		Overload Protection
			Min.	Max.	
100Hz	0.1Hz	$\pm(2.0\%+5)$	1Vp-p	200V rms	600V DC/AC rms <30 sec.
1kHz	0.001kHz		4Vp-p	30V rms	
10kHz	0.01kHz		8Vp-p	20V rms	
100kHz	0.1kHz		12Vp-p	15V rms	
1MHz	0.001MHz				

Duty Cycle Measurement

Range	Resolution	Accuracy	Overload Protection
10 – 90%	0.01%	$\pm(2.0\% \text{ Read.} + 5\text{dgt})$	250V DC/AC rms <30 sec.

Min. input voltage: 400mV p-p

Temperature K-type Probe

Range	Resolution	Accuracy	Overload Protection
-40 – 400°C	1°C	$\pm(0.75\% \text{ Read.} + 3\text{dgt})$	Fast 630mA/250V Fuse
401 – 1000°C		$\pm(2.0\% \text{ Read.} + 5\text{dgt})$	
-72 – 752°F	1°F	$\pm(0.75\% \text{ Read.} + 3\text{dgt})$	250V DC/AC rms <30 sec.
752 – 1832°F		$\pm(2.0\% \text{ Read.} + 5\text{dgt})$	

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