BS94
3 /4 Digits Dual Voltage/Current Display Multi-Function TRMS 400A AC Clamp DMM

BS94 is a hand-held, battery powered digital multimeter with clamp-on current measuring capability, backlight and worklight.

Features:

- 3-3/4 digit, 4000 count LCD display
- Dual display
- TRMS Measurement
- Auto-ranging measurement with manual ranging (Amps or adapters only) capability
- MIN/MAX (Peak Hold) (all ranges except Frequency)
- Frequency/Duty Cycle/Data Hold
- Auto power off with manual override
- Detachable current probe design
- Built-in test leads storage & magnetic mount
- Backlit display & Work light
- Temperature
- Non-Contact Voltage

Accessories:

- User's Manual
- Test Lead Set
- Alligator Clips
- K-type Thermocouple

Battery required:
- Batteries , 1.5 x 2
  (Not included in accessories)

Standards

IEC 1010-2-032, CATIII 600V
UL-Listed
CE-mark Certificated

Due to our policy of continual product development we reserve the right to amend the specifications of all mentioned products without notice.

Electrical Specification

Accuracies is given as ±(% of reading + number of least significant digits) at 18°C to 28°C with relative humidity up to 80%, for a period of one year after calibration.

AC Amps Measurement – Jaw Input (45 to 400Hz)

Range	Resolution	Accuracy	Overload Protection
40A	0.01A	±(2.9% Read. + 15dgt)	600V
400A	0.1A	±(1.9% Read. + 8dgt)	

45Hz to 400 Hz True RMS (Crest factor < 3:1)

ADP Measurement

Range	Resolution	Accuracy	Overload Protection
400mV	0.1mV	±(0.5% Read. + 4dgt)	30V Max

DC micro Amps Measurement (test lead input)

Range	Resolution	Accuracy	Overload Protection
400µA	0.01µA	±(1.2% Read. + 3dgt)	2000µA / 600V
2000µA	0.1µA		

AC micro Amps Measurement (test lead input)

Range	Resolution	Accuracy	Overload Protection
400µA	0.01µA	±(2.0% Read. + 5dgt)	2000µA / 600V
2000µA	0.1µA	±(1.5% Read. + 5dgt)	

*45Hz to 400Hz True RMS (Crest factor < 3:1)

DC Voltage Measurement

Range	Resolution	Accuracy	Overload Protection
400mV	0.1mV	±(0.5% Read. + 4dgt)	600V
4V	0.001V		
40V	0.01V		
400V	0.1V		
1000V	1V	±(0.8% Read. + 10dgt)	

AC Voltage Measurement (45 to 400Hz)

Range	Resolution	Accuracy	Overload Protection
4V	1mV	±(2.0 % Read. + 5dgt)	600V
40V	0.01V		
400V	0.1V		
750V	1V		

45Hz to 1kHz True RMS (Crest factor < 3:1)

Ohms Measurement

Range	Resolution	Accuracy	Overload Protection
400	0.1	±(1.0% Read. + 4dgt)	600 V
4k	0.001k		
40k	0.01k		
400k	0.1k		
4M	0.001M		
40M	0.01M	±(2.0% Read. + 4dgt)	

Diode Test

Range	Open circuit voltage	Test Current (Typical)	Overload Protection
2.0V	<3.0V DC	0.25mA	600V

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Capacitance Measurement

Range	Resolution	Accuracy	Overload Protection
40nF	0.01nF	±(3.5% Read. + 6dgt)	600V
400nF	0.1nF		
4µF	0.001µF		
40µF	0.01µF		
400µF	0.1µF		
4000µF	1µF		

Temperature Measurement

Range	Resolution	Accuracy	Overload Protection
-22℉ to 14℉ (-30℃ to -10℃)	0.1℉ (0.1℃)	±5.4℉ (±3.0℃)	30V
15℉ to 752℉ (-10℃ to 400℃)	0.1℉ (0.1℃)	±1.0% + 3.6℉ (±1.0% + 2.0℃)	

Sensor: K-Type Thermocouple, sensor accuracy not included.

Frequency Measurement

Range	Resolution	Accuracy	Overload Protection
9.999Hz	0.001Hz	±(0.1% Read. + 4dgt)	600V
99.99Hz	0.01Hz		
999.9Hz	0.1Hz		
9.999kHz	0.001 kHz		
99.99kHz	0.01 kHz		

Minimum frequency: 0.5Hz, DCV offset should be zero
Sensitivity: >1.0 V rms

Duty (%) Cycle Measurement

Range	Accuracy	Overload Protection
0.1 to 99.9%	±(0.2% per kHz + 0.1%) + 5 count	600V

0.5Hz to 100 kHz (pulse width > 2 µsec)

Continuity Measurement

Open circuit voltage	Threshold	Overload Protection
<2.7V	Approx. <30	600V

General Specifications

Display : 3 3/4 digits LCD with max. reading of 4000.
Polarity : Automatic, (-) negative polarity indication.
Zero adjustment : Automatic.
Over range indication : Only the MSD “OL” is displayed.
Power : 2 x 1.5 volt battery LR03 AAA size
Dimension : 80 (W) x 220 (H) x 40 (D) mm.
Weight : Approx. 320 g (including battery).

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