

**FEATURES :**

- 60,000 counts and dual input channels (4-5/6 digits)
- 0.04% DC basic accuracy and 0.2% AC basic accuracy
- Bandwidth of 10 KHz(max.)
- Fast ACV, ACA response
- Better AC accuracy than that of a bench-top DMM
- Study of relationship of two voltages similar to a dual channels DSO
- Study of relationship of voltage and current with one DMM
- Record data of both channels using a PC through the RS-232C interface (803)
- Standalone data logging of 10,708 records for both channels (803)

**ELECTRICAL SPECIFICATIONS: (23°C ± 5°C)**

■ DC Voltage: (Input Impedance: 10M $\Omega$ )

Range	Resolution	Accuracy	Overload protection
60.000mV	0.001mV	±0.2% ±9dgt <sup>s</sup>	DC 1000V
600.00mV	0.01mV	±0.04% ±6dgt <sup>s</sup>	DC 1000V
6.0000V	0.0001V	±0.04% ±6dgt <sup>s</sup>	DC 1000V
60.000V	0.001V	±0.04% ±6dgt <sup>s</sup>	DC 1000V
600.00V	0.01V	±0.04% ±6dgt <sup>s</sup>	DC 1000V
1000.0V	0.1V	±0.08% ±6dgt <sup>s</sup>	DC 1000V

■ AC Voltage:

Range(ACV)	Resolution	Accuracy(50/60Hz)
60.000mV	0.001mV	±0.2% ±40dgt <sup>s</sup>
600.00mV	0.01mV	±0.2% ±40dgt <sup>s</sup>
6.0000V	0.0001V	±0.2% ±40dgt <sup>s</sup>
60.000V	0.001V	±0.2% ±40dgt <sup>s</sup>
600.00V	0.01V	±0.2% ±40dgt <sup>s</sup>
1000.0V	0.1V	±0.2% ±40dgt <sup>s</sup>

■ DC Current:

Range	Resolution	Accuracy
600.00 $\mu$ A	0.01 $\mu$ A	±0.4% ±20dgt <sup>s</sup>
6000.0 $\mu$ A	0.1 $\mu$ A	±0.2% ±20dgt <sup>s</sup>
60.000mA	0.001mA	±0.4% ±20dgt <sup>s</sup>
600.00mA	0.01mA	±0.2% ±20dgt <sup>s</sup>
1.0000A	0.0001A	±0.2% ±20dgt <sup>s</sup>
10.000A <sup>1</sup>	0.001A	±0.6% ±20dgt <sup>s</sup>

<sup>1</sup> 20A overload for maximum 30 seconds

■ AC Current:

Range(ACA)	Resolution	Accuracy(50/60Hz)
600.00 $\mu$ A	0.01 $\mu$ A	±0.6% ±40dgt <sup>s</sup>
6000.0 $\mu$ A	0.1 $\mu$ A	±0.6% ±40dgt <sup>s</sup>
60.000mA	0.001mA	±0.6% ±40dgt <sup>s</sup>
600.00mA	0.01mA	±0.6% ±40dgt <sup>s</sup>
1.0000A	0.0001A	±0.6% ±40dgt <sup>s</sup>
10.000A <sup>1</sup>	0.001A	±0.9% ±40dgt <sup>s</sup>

<sup>1</sup> 20A overload for maximum 30 seconds

■ Resistance: ( $\Omega$ )

Range	Resolution	Accuracy	Overload protection
999.99 $\Omega$	0.01 $\Omega$	±0.25% ±9dgt <sup>s</sup>	AC 1000V
9.9999K $\Omega$	0.0001K $\Omega$	±0.15% ±6dgt <sup>s</sup>	AC 1000V
99.999K $\Omega$	0.001K $\Omega$	±0.15% ±6dgt <sup>s</sup>	AC 1000V
999.99K $\Omega$	0.01K $\Omega$	±0.15% ±6dgt <sup>s</sup>	AC 1000V
9.9999M $\Omega$	0.0001M $\Omega$	±0.3% ±9dgt <sup>s</sup>	AC 1000V
40.000M $\Omega$	0.001M $\Omega$	±1.5% ±9dgt <sup>s</sup>	AC 1000V

■ Continuity: (—), open voltage 3V approx)

Range	Resolution	Beeper	Overload protection
999.99 $\Omega$	0.01 $\Omega$	<40 $\Omega$ approx	AC 1000V

■ Capacitance: (—), auto range, and for film capacitor or better)

Range	Resolution	Accuracy <sup>1</sup>
60.00nF	0.01nF	±1.2% ±8dgt <sup>s</sup>
600.0nF	0.1nF	±2.5% ±8dgt <sup>s</sup>
6.000 $\mu$ F	0.001 $\mu$ F	±2.5% ±8dgt <sup>s</sup>
60.00 $\mu$ F	0.01 $\mu$ F	±3.0% ±8dgt <sup>s</sup>
600.0 $\mu$ F	0.1 $\mu$ F	±5.0% ±8dgt <sup>s</sup>

<sup>1</sup> for reading less than 150 counts (least significant digits), add additional 15 digits to the specified accuracy.



■ Capacitance: (—), manual range, and for film capacitor or better)

Range	Resolution	Accuracy <sup>1</sup>
99.99nF	0.01nF	±1.2% ±8dgt <sup>s</sup>
999.9nF	0.1nF	±2.5% ±8dgt <sup>s</sup>
9.999 $\mu$ F	0.001 $\mu$ F	±2.5% ±8dgt <sup>s</sup>
99.99 $\mu$ F	0.01 $\mu$ F	±3.0% ±8dgt <sup>s</sup>
999.9 $\mu$ F	0.1 $\mu$ F	±5.0% ±8dgt <sup>s</sup>

<sup>1</sup> for reading less than 150 counts (least significant digits), add additional 15 digits to the specified accuracy.

■ Diode Test: (open voltage 3V approx, overload protection AC 1000V)

Range	Resolution	Accuracy	Short Circuit Current
3.0000V	0.0001V	±2% ±5dgt <sup>s</sup>	0.8mA typical

■ Frequency: (TTL)

Range(Auto)	Resolution	Accuracy	Overload Protection
1.000Hz-2MHz	0.0001Hz	±0.005% ±4dgt <sup>s</sup>	AC 1000V
	0.0001MHz		

**GENERAL SPECIFICATIONS :**

Battery Type: 9V

Display: 5+5 digits LCD with 30 segments bar graph

Range Selection: auto and manual

Overload Indication: OL

Power Consumption: 4mA (approx)

Dimensions: 207mm(L) × 101mm(W) × 47mm(H)

Weight: 430g (battery included)

Accessories : Users manual × 1, 9V battery × 1, Test Leads, RS-232C interface cable & Software (803)