



Product Datasheet

Stock No: 2003703

True Multimeter

EN

English



Introduction

Congratulations on your purchase of the Autoranging True RMS Multimeter. The series consists of the following models:

The Autoranging True RMS Multimeter with Flashlight & Bluetooth function.

All models measure

- AC/DC Voltage
- AC/DC Current
- Resistance
- Capacitance
- Frequency/Duty Cycle
- Continuity
- Diode

The Autoranging True RMS Multimeter features

- Auto Power OFF
- Data Hold
- Max/Min
- Flashlight/Bluetooth wireless transmit
- Backlit LCD display

Specifications

Function	Range & Resolution	Accuracy (%) of reading + digits)
AC Current 50/60Hz True RMS	400.0uA AC	$\pm(2.0\% + 5d)$
	4000uA AC	$\pm(2.5\% + 5d)$
	40.00mA AC	
	400.0mA AC	
	10A AC	$\pm(3.0\% + 7d)$
DC Current	400.0uA DC	$\pm(1.0\% + 3d)$
	4000uA DC	$\pm(1.5\% + 3d)$
	40.00mA DC	
	400.0mA DC	
	10A DC	$\pm(2.5\% + 5d)$

Function	Range & Resolution	Accuracy (% of reading + digits)
AC Voltage 50/60Hz True RMS	4.000V AC	$\pm(1.0\% + 5d)$
	40.00V AC	$\pm(1.2\% + 5d)$
	400.0V AC	
	600V AC	
DC Voltage	400.0mV DC	$\pm(1.0\% + 8d)$
	4.000V DC	$\pm(1.0\% + 3d)$
	40.00V DC	
	400.0V DC	
	600V DC	$\pm(1.2\% + 3d)$
Resistance	400.0 Ω	$\pm(1.0\% + 4d)$
	4.000k Ω	$\pm(1.5\% + 5d)$
	40.00k Ω	
	400.0k Ω	
	4.000M Ω	
	40.00M Ω	$\pm(3.5\% + 5d)$
Capacitance	40.00nF	$\pm(5.0\% + 35d)$
	400.0nF	$\pm(3.0\% + 5d)$
	4.000 μ F	
	40.00 μ F	$\pm(4.0\% + 5d)$
	400.0 μ F	
	4000 μ F	
Frequency	9.999Hz	$\pm(1.0\% + 5d)$
	99.99Hz	
	999.9Hz	
	9.999kHz	
Duty Cycle	1.00 to 99.00%	$\pm(1.2\% + 5d)$
		Pulse width: 100 μ s - 100ms, Frequency: 5.000Hz ~ 100.0kHz

Note: Accuracy is given as \pm (% of reading + counts of least significant digit) @ 23°C \pm 5°C, with relative humidity less than 80%RH. Check waveform is sine wave. At 10A current range ED = 30 sec. on/ 15 min.

Display	3-3/4 digits(4000 counts)backlit LCD
Continuity check	Threshold 50Ω; Test current <0.5mA
Diode test	Test current of 0.3mA typical; Open circuit voltage <3.3VDC typical
Low Battery indication	" " is displayed
Over-range indication	" OL " display
Measurement rate	2 readings per second, nominal
Input Impedance	10MΩ(VDC and VAC)
AC response	True rms(AAC and VAC)
Operating Temperature	41°F to 104°F (5°C to 40°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Operating Humidity	Max 80% up to 87°F (31°C)decreasing linearly to 50%at 104°F (40°C)
Storage Humidity	<80%
Operating Altitude	7000ft. (2000meters)maximum.
Battery	Two "AAA" 1.5V Alkaline Battery
Auto power OFF	After approx. 15 minutes
Dimensions& Weight	121*67*35mm; 140g
Safety	For indoor use and in accordance with the requirements for double insulation to IEC1010-1(2001); EN61010-1(2001) Overvoltage Category III 600V, Pollution Degree 2.

Accessories:

Test leads, 1.5V AAA x 2 batteries and clamshell.