



173A Auto Ranging DMM

LCD Display

4000 count with 42 segment bar graph.

REC (Record Mode)

Store minimum and maximum readings over a measurement period.

RANGE

Manually select the appropriate range

AC/DC

Manually select AC or DC measurement function.

(Continuity Buzzer and Diode Test)

Toggle between continuity buzzer or diode test on Ohm function.

High Resolution DCmV Range

Additional 40 millivolt range with 0.01mV resolution for improved accuracy when performing low voltage measurements.

ACV (AC Volts)

Measure the voltage of ABS wheel sensors.

DCV (DC Volts)

Measure the voltage of circuits and sensors.

Hz/Duty (Duty Cycle)

Measure in percent the "ON" time of sensors or other devices.

REL (Relative Mode)

Factor out lead resistance for improved low ohm measurements or compare readings to a known standard. Can also be used for differential measurements.

HOLD

Lock the reading on the display for hard to read locations for future reference.

Ω (Ohms, Resistance)

Measure the resistance of spark plug wires, coils, sensors, and continuity of wiring.

AC/DC Current Functions (Amps)

Measure the parasitic draw from the battery with ignition off.

Hz (Frequency)

Measure the frequency of sensors and signals.

Auto Ranging DMM



CAP (Capacitance)

Measure the capacitance of condensers or capacitors found in today's hybrid automobiles.

Built in Tilt Stand

The tilt stand is built into the instrument housing.

Quickly Test Condition of Internal Fuses

You can determine the status of the internal fuses before you open the battery/fuse compartment. Simply set the instrument to the diode test function, plug the black test lead into the "VO2" input jack and touch the prod end of the black lead to the metal inside the "A" or "UAmA" input jack. If the meter reads "OL", the fuse is blown. If there is a reading on the LCD besides "OL", the fuse is good.

Separate Fuse/Battery Compartment

Easily replace fuses and batteries in this separate compartment.

Fuses are clearly labeled with preplacement part number.



CAT II-1000V, CAT III-600V
POLLUTION DEGREE 2

Safety!

cULus 61010-1 Listed Meets CE and IEC61010-1 safety standards.

Function	Range	Resolution	Accuracy	Impedance
DC Volts 1000V DC Max. Input	40mV	0.01mV	±(0.5% + 2 digits)	10MΩ
	400mV	0.1mV		
	4V	0.001V		
	40V	0.01V		
	400V	0.1V		
	1000V	1V		
AC Volts 750V AC Max. Input	40mV	0.01mV	±(0.5% + 2 digits)	10MΩ
	400mV	0.1mV	±(0.75% + 5 digits)	
	4V	0.001V		
	40V	0.01V		
	400V	0.1V		
	750V	1V	±(1.0% + 5 digits)	
DC Amps	40μA	0.1μA	±(0.8% + 2 digits)	Fuse 0.5 Amp
	400μA	1μA	±(0.8% + 5 digits)	
	4mA	0.01mA		
	40mA	0.1mA		
	400A	0.01A		
	4A	0.001A	±(1.2% + 5 digits)	Fuse 10 Amp
10A	0.01A			
AC Amps	400μA	1μA	±(1.2% + 5 digits)	Fuse 0.5 Amp
	4mA	0.01mA		
	40mA	0.1mA		
	400mA	0.01A		
	4A	0.001A	±(1.5% + 10 digits)	Fuse 10 Amp
	10A	0.01A		
Ohms 600V DC or Peak AC Max. Input	400Ω	0.1Ω	±(1.0% + 5 digits)	600 V DC or Peak AC
	4kΩ	0.001kΩ	±(0.5% + 3 digits)	
	40kΩ	0.01kΩ		
	400kΩ	0.1kΩ		
	4MΩ	0.001MΩ	±(1.0% + 3 digits)	
	40MΩ	0.01MΩ	±(1.5% + 10 digits)	
Capacitance	40nF	0.01nF	±(3.0% + 10 digits)	600 V DC or Peak AC
	400nF	0.1nF		
	4uF	0.001nF		
	40uF	0.01uF		
	400uF	0.1uF		
	4000uF	1uF	±(7.0% + 10 digits)	
Frequency	10Hz	0.01Hz	±(0.05% + 3 digits)	600 V DC or Peak AC
	100Hz	0.1Hz		
	1KHz	0.001KHz		
	10KHz	0.01KHz		
	100KHz	0.1KHz		
	1MHz	0.001MHz		
	10MHz	0.01MHz		
Duty Cycle	Range	0.1 ~99.9%(0.5Hz to 500kHz, Width > 2uS)		
	Accuracy	(0.1% + 0.05% / kHz) +1 Count		
Diode Test	Test Voltage	Max Test Current	Over Load Protection	
	2.7V	Approx. 1mA	600 V DC or Peak AC	
Continuity Buzzer	Test Voltage	Threshold	Over Load Protection	
	0.4 ~ 0.6V	< 30Ω	600 V DC or Peak AC	

General Specifications

Max. Volt. between any Input and Ground	1000V
Fuse Protection	mA: 0.5Amp/600VAC A: 10Amp/600VAC
Display Type	4000 Count, with 34 segment bargraph.
Operating Temp.	-0° to 40°C (32° to 104°F)
Storage Temp.	-10° to 50°C (14° to 122°F)
Relative Humidity	0% to 80%
Power Supply	2 each 1.5 Volt "AA" Batteries
Battery Life	200 hrs. Typical
Size (H x L x W)	61mm x 97mm x 203mm (2.4in x 3.8in x 8.0in)
Weight	680g (24oz)

