



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 replacement 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				
AC Volts 750V AC Max. Input	40mV	0.01mV	±(0.5% + 2 digits)	10MΩ		
	400mV	0.1mV				
	4V	0.001V				
	40V	0.01V				
	400V	0.1V				
DC Amps	40μA	0.1μA	±(0.8% + 2 digits)	Fuse 0.5 Amp		
	400μA	1μA				
	4mA	0.01mA	±(0.8% + 5 digits)			
	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				
	40kΩ	0.01kΩ			±(0.5% + 3 digits)	
	400kΩ	0.1kΩ				
	4MΩ	0.001MΩ				
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	0.001uF				
	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	Test Voltage	Threshold	Over Load Protection			
Buzzer	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)

