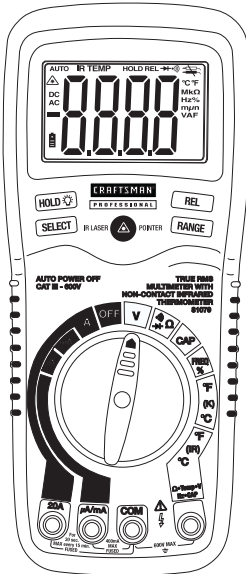


Owner's Manual



True RMS Multimeter with IR Thermometer

Model No.
81079



CAUTION: Read, understand and follow Safety Rules and Operating Instructions in this manual before using this product.

- Safety
- Operation
- Maintenance
- Español

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ONE YEAR FULL WARRANTY

ONE YEAR FULL WARRANTY ON CRAFTSMAN PROFESSIONAL TRUE RMS MULTIMETER

If this CRAFTSMAN Professional True RMS Multimeter fails to give complete satisfaction within one year from the date of purchase, RETURN IT TO THE NEAREST SEARS STORE OR OTHER CRAFTSMAN OUTLET IN THE UNITED STATES, and Sears will replace it, free of charge.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179

For Customer Assistance Call 9am - 5pm (ET)

Monday through Friday 1-888-326-1006

WARNING: USE EXTREME CAUTION IN THE USE OF THIS DEVICE. Improper use of this device can result in injury or death. Follow all safeguards suggested in this manual in addition to the normal safety precautions used in working with electrical circuits. DO NOT service this device if you are not qualified to do so.

SAFETY INSTRUCTIONS

This meter has been designed for safe use, but must be operated with caution. The rules listed below must be carefully followed for safe operation.

1. **NEVER** apply voltage or current to the meter that exceeds the specified maximum:

Input Limits	
Function	Maximum Input
V DC or V AC	600V DC/AC, 200Vrms on 400mV range
mA AC/DC	500mA 250V fast acting fuse
A AC/DC	20A 250V fast acting fuse(30 seconds max every 15 minutes)
Frequency, Resistance, Capacitance, Duty Cycle, Diode Test, Continuity	250Vrms for 15sec max
Temperature	60V DC/24V AC

2. **USE EXTREME CAUTION** when working with high voltages
3. **DO NOT** measure voltage if the voltage on the "COM" input jack exceeds 600V above earth ground
4. **DO NOT** measure current of circuits whose voltage is greater than 500V above earth ground
5. **NEVER** connect the meter leads across a voltage source while the function switch is in the resistance or diode mode. Doing so can damage the meter
6. **ALWAYS** turn off the power and disconnect the test leads before opening the cover to replace the fuse or battery
7. **NEVER** operate the meter unless the back cover is in place and fastened securely

SAFETY SYMBOLS



This symbol adjacent to another symbol, terminal or operating device indicates that the operator must refer to an explanation in the Operating Instructions to avoid personal injury or damage to the meter.

WARNING

This **WARNING** symbol indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.

CAUTION

This **CAUTION** symbol indicates a potentially hazardous situation, which if not avoided, may result damage to the product.



This symbol advises the user that the terminal(s) so marked must not be connected to a circuit point at which the voltage with respect to earth ground exceeds (in this case) 600 VAC or VDC.



This symbol adjacent to one or more terminals identifies them as being associated with ranges that may, in normal use, be subjected to particularly hazardous voltages. For maximum safety, the meter and its test leads should not be handled when these terminals are energized.



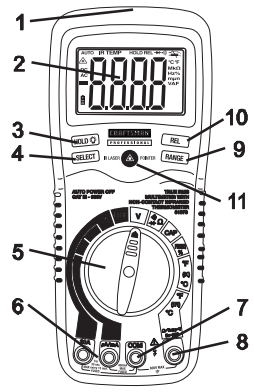
This symbol indicates that a device is protected throughout by double insulation or reinforced insulation.



This symbol indicates there is a potential hazard from a laser light source.

CONTROLS AND JACKS

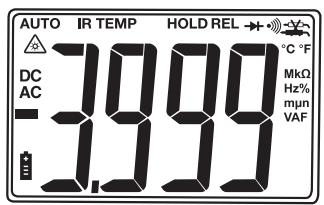
1. IR Thermometer and laser pointer
2. 4000 count LCD display
3. HOLD and Backlight button
4. SELECT button
5. Function switch
6. mA, uA and A input jacks
7. COM input jack
8. Positive input jack
9. RANGE hold button
10. RELATIVE button
11. Laser pointer button



Note: Tilt stand and battery compartment are on rear of unit.

SYMBOLS AND ANNUNCIATORS

-))) Continuity
- ▶ Diode test
- ▲ Laser pointer
- 🔋 Battery status
- ✖ Test lead connection error
- n nano (10^{-9}) (capacitance)
- μ micro (10^{-6}) (amps, cap)
- m milli (10^{-3}) (volts, amps)
- k kilo (10^3) (ohms)
- M mega (10^6) (ohms)
- Hz Hertz (frequency)
- % Percent (duty ratio)
- AC Alternating current
- DC Direct current
- °F Degrees Fahrenheit



- A Amps
- F Farads (capacitance)
- Ω Ohms
- V Volts
- REL Relative
- AUTO Autoranging
- HOLD Data hold
- °C Degrees Centigrade

SPECIFICATIONS


Function	Range	Resolution	Accuracy	
DC Voltage	400mV	0.1mV	$\pm(0.3\% \text{ reading} + 2 \text{ digits})$	
	4V	0.001V		
	40V	0.01V	$\pm(0.5\% \text{ reading} + 2 \text{ digits})$	
	400V	0.1V		
	600V	1V	$\pm(0.8\% \text{ reading} + 3 \text{ digits})$	
AC Voltage			50 to 400Hz	400Hz to 1kHz
	400mV	0.1mV	$\pm(1.5\% \text{ reading} + 15 \text{ digits})$	$\pm(2.5\% \text{ reading} + 15 \text{ digits})$
	4V	0.001V	$\pm(1.5\% \text{ reading} + 6 \text{ digits})$	$\pm(2.5\% \text{ reading} + 8 \text{ digits})$
	40V	0.01V		
	400V	0.1V	$\pm(1.8\% \text{ reading} + 6 \text{ digits})$	$\pm(3\% \text{ reading} + 8 \text{ digits})$
	600V	1V		
DC Current	400 μ A	0.1 μ A	$\pm(1.5\% \text{ reading} + 3 \text{ digits})$	
	4000 μ A	1 μ A		
	40mA	0.01mA		
	400mA	0.1mA		
	4A	0.001A	$\pm(2.5\% \text{ reading} + 5 \text{ digits})$	
	20A	0.01A		
AC Current			50 to 400Hz	400Hz to 1KHz
	400 μ A	0.1 μ A	$\pm(1.8\% \text{ reading} + 8 \text{ digits})$	$\pm(3.0\% \text{ reading} + 7 \text{ digits})$
	4000 μ A	1 μ A		
	40mA	0.01mA		
	400mA	0.1mA		
	4A	0.001A	$\pm(3.0\% \text{ reading} + 8 \text{ digits})$	$\pm(3.5\% \text{ reading} + 10 \text{ digits})$
	20A	0.01A	$\pm(3.0\% \text{ reading} + 8 \text{ digits})$	

NOTE: Accuracy is stated at 65°F to 83°F (18°C to 28°C) and less than 75% RH.

Function	Range	Resolution	Accuracy
Resistance	400Ω	0.1Ω	±(0.8% reading + 4 digits)
	4kΩ	0.001kΩ	±(0.8% reading + 2 digits)
	40kΩ	0.01kΩ	±(1.0% reading + 2 digits)
	400kΩ	0.1kΩ	
	4MΩ	0.001MΩ	
	40MΩ	0.01MΩ	±(3.0% reading + 5 digits)
Capacitance	40nF	0.01nF	±(5.0% reading + 7 digits)
	400nF	0.1nF	±(3.0% reading + 5 digits)
	4μF	0.001μF	±(3.5% reading + 5 digits)
	40μF	0.01μF	
	100μF	0.1μF	±(5.0% reading + 5 digits)
Frequency	5.000Hz	0.001Hz	±(1.5% reading + 5 digits)
	50.00Hz	0.01Hz	
	500.0Hz	0.1Hz	
	5.000kHz	0.001kHz	±(1.2% reading + 2 digits)
	50.00kHz	0.01kHz	
	500.0kHz	0.1kHz	
	5.000MHz	0.001MHz	±(1.5% reading + 4 digits)
	10.00MHz	0.01MHz	
Sensitivity: 0.8V rms min. <100kHz; 5Vrms min > 100kHz.			
Duty Cycle	0.1 to 99.9%	0.1%	±(1.2% reading + 2 digits)
	Pulse width: 100μs - 100ms, Frequency: 5Hz to 150kHz		
Temp (type-K)	-4 to 1382°F	1°F	±(3.0% reading + 3 digits)
	-20 to 750°C	1°C	(probe accuracy not included)
Temp (IR)	-4 to 518°F	1°F	±2.0% reading or ±2°C, ± 4 °F
	-20 to 270°C	1°C	

NOTE: Accuracy specifications consist of two elements:

- (% reading) – This is the accuracy of the measurement circuit.
- (+ digits) – This is the accuracy of the analog to digital converter.

Diode Test	Test current of 0.3mA maximum, open circuit voltage 1.5V DC typical
Continuity Check	Audible signal will sound if the resistance is less than 150Ω (approx.), test current <0.7mA
Temperature Sensor	Requires type K thermocouple
IR Spectral response	6 to 16μm
IR Emissivity	0.95 fixed
IR distance ratio	8:1
Input Impedance	>7.5MΩ (VDC & VAC)
AC Response	True rms
ACV Bandwidth	50Hz to 1kHz
Display	4000 count backlit liquid crystal
Overrange indication	"OL" is displayed
Auto Power Off	15 minutes (approximately)
Polarity	Automatic (no indication for positive); Minus (-) sign for negative .
Measurement Rate	2 times per second, nominal
Low Battery Indication	"  " is displayed if battery voltage drops below operating voltage
Battery	one 9 volt (NEDA 1604) battery
Fuses	mA, μA ranges; 0.5A/250V fast blow A range; 20A/250V ceramic fast blow
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Relative Humidity	<70% operating, <80% storage
Operating Altitude	7000ft. (2000) meters maximum.
Weight	0.753lb (342g) (includes holster).
Size	7.36" x 3.2" x 2.0" (187 x 81 x 50mm) (includes holster)
Safety	For indoor use and in accordance with the requirements for double insulation to IEC1010-1 (1995): EN61010-1 (1995) Overvoltage Category III, Pollution Degree 2.

BATTERY INSTALLATION

WARNING: To avoid electric shock, disconnect the test leads from any source of voltage before removing the battery cover.

1. Disconnect the test leads from the meter.
2. Remove the rear battery cover by removing the two screws using a Phillips head screwdriver.
3. Insert the battery into battery clips, observing the correct polarity.
4. Put the battery cover back in place and secure with the two screws.

WARNING: To avoid electric shock, do not operate the meter until the battery cover is in place and fastened securely.

NOTE: If your meter does not work properly, check the fuses and batteries to make sure that they are still good and that they are properly inserted.

OPERATING INSTRUCTIONS

WARNING: Risk of electrocution. High-voltage circuits, both AC and DC, are very dangerous and should be measured with great care.

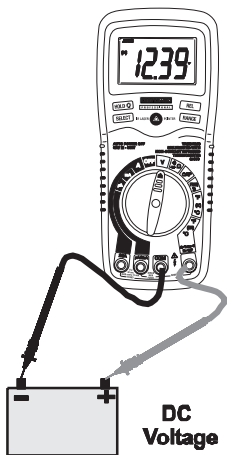
1. ALWAYS turn the function switch to the OFF position when the meter is not in use.
2. If “OL” appears in the display during a measurement, the value exceeds the range you have selected. Change to a higher range.

NOTE: On some low AC and DC voltage ranges, with the test leads not connected to a device, the display may show a random, changing reading. This is normal and is caused by the high-input sensitivity. The reading will stabilize and give a proper measurement when connected to a circuit.

DC VOLTAGE MEASUREMENTS

CAUTION: Do not measure DC voltages if a motor on the circuit is being switched ON or OFF. Large voltage surges may occur that can damage the meter.

1. Set the function switch to the **V** position.
2. Insert the black test lead banana plug into the negative (COM) jack. Insert the red test lead banana plug into the positive (V) jack.
3. Touch the black test probe tip to the negative side of the circuit. Touch the red test probe tip to the positive side of the circuit.
4. Read the voltage in the display.



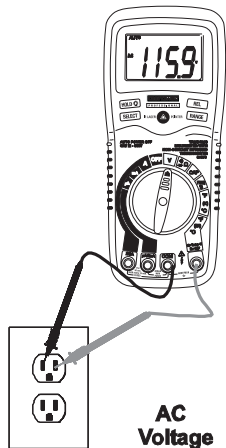
AC VOLTAGE MEASUREMENTS

AC VOLTAGE: The probe tips may not be long enough to contact the live parts inside some 240V outlets for appliances because the contacts are recessed deep in the outlets. As a result, the reading may show 0 volts when the outlet actually has voltage on it.

WARNING: To avoid electric shock, make sure the probe tips are touching the metal contacts inside the outlet before assuming no voltage is present

CAUTION: Do not measure AC voltages if a motor on the circuit is being switched ON or OFF. Large voltage surges may occur that can damage the meter.

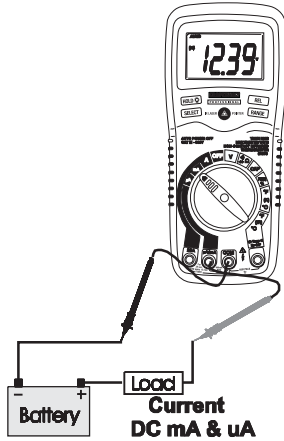
1. Set the function switch to the **V** position.
2. Press the SELECT button to indicate "AC" on the display.
3. Insert the black test lead banana plug into the negative (COM) jack. Insert red test lead banana plug into the positive (V) jack.
4. Touch the black test probe tip to the negative side of the circuit. Touch the red test probe tip to the positive side of the circuit.
5. Read the voltage in the display.



DC CURRENT MEASUREMENTS

CAUTION: Do not make current measurements on the **20A** scale for longer than **30** seconds. Exceeding 30 seconds may cause damage to the meter and/or the test leads.

1. Insert the black test lead banana plug into the negative (COM) jack.
2. For current measurements up to $4000\mu\text{A}$ DC, set the function switch to the μA position and insert the red test lead banana plug into the ($\mu\text{A}/\text{mA}$) jack.
3. For current measurements up to 400mA DC, set the function switch to the mA position and insert the red test lead banana plug into the ($\mu\text{A}/\text{mA}$) jack.
4. For current measurements up to 20A DC, set the function switch to the **A** range and insert the red test lead banana plug into the (20A) jack.
5. Remove power from the circuit under test, then open up the circuit at the point where you wish to measure current.
6. Touch the black test probe tip to the negative side of the circuit. Touch the red test probe tip to the positive side of the circuit.
7. Apply power to the circuit.
8. Read the current in the display.

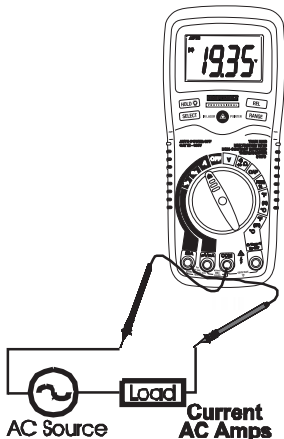


AC CURRENT MEASUREMENTS

WARNING: To avoid electric shock, do not attempt to measure **AC A** in circuits that have voltages which exceed 250V AC.

CAUTION: Do not make current measurements on the **20A** scale for longer than **30** seconds. Exceeding 30 seconds may cause damage to the meter and/or the test leads.

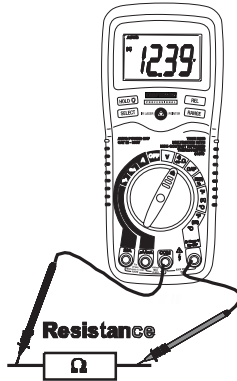
1. Insert the black test lead banana plug into the negative (COM) jack.
2. For current measurements up to $4000\mu\text{A}$ AC, set the function switch to the **μA** position and insert the red test lead banana plug into the ($\mu\text{A}/\text{mA}$) jack.
3. For current measurements up to 400mA AC, set the function switch to the **mA** position and insert the red test lead banana plug into the ($\mu\text{A}/\text{mA}$) jack.
4. For current measurements up to 20A AC, set the function switch to the **A** range and insert the red test lead banana plug into the (20A) jack.
5. Press the SELECT button to indicate "AC" on the display.
6. Remove power from the circuit under test, then open up the circuit at the point where you wish to measure current.
7. Touch the black test probe tip to the negative side of the circuit. Touch the red test probe tip to the positive side of the circuit.
8. Apply power to the circuit.
9. Read the current in the display.



RESISTANCE MEASUREMENTS

WARNING: To avoid electric shock, disconnect power to the unit under test and discharge all capacitors before taking any resistance measurements. Remove the batteries and unplug the line cords.

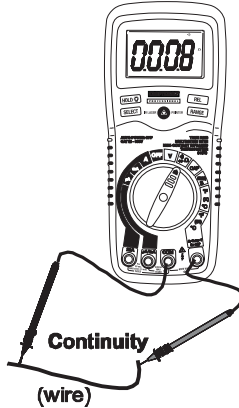
1. Set the function switch to the Ω \rightarrow \rightarrow position.
2. Insert the black test lead banana plug into the negative (COM) jack. Insert the red test lead banana plug into the positive Ω jack.
3. Touch the test probe tips across the circuit or part under test. It is best to disconnect one side of the part under test so the rest of the circuit will not interfere with the resistance reading.
4. Read the resistance in the display.



CONTINUITY CHECK

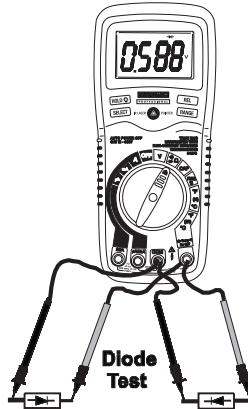
WARNING: To avoid electric shock, never measure continuity on circuits or wires that have voltage on them.

1. Set the function switch to the Ω \rightarrow \bullet \rightarrow ∞ position.
2. Insert the black lead banana plug into the negative (COM) jack. Insert the red test lead banana plug into the positive (Ω) jack.
3. Press the SELECT button to indicate \bullet \rightarrow ∞ on the display.
4. Touch the test probe tips to the circuit or wire you wish to check.
5. If the resistance is less than approximately 150Ω , the audible signal will sound. If the circuit is open, the display will indicate "OL".



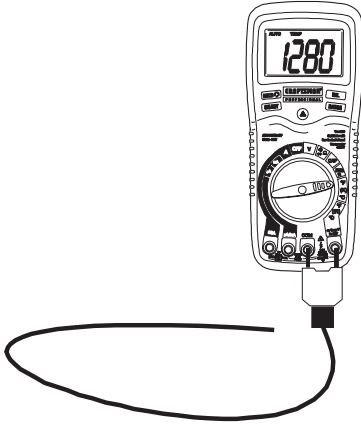
DIODE TEST

1. Set the function switch to the Ω \rightarrow \bullet \rightarrow ∞ position.
2. Insert the black test lead banana plug into the negative **COM** jack and the red test lead banana plug into the positive diode jack.
3. Press the SELECT button to indicate \rightarrow \bullet on the display.
4. Touch the test probes to the diode under test. Forward voltage will typically indicate 0.400 to 0.700mV. Reverse voltage will indicate "OL". Shorted devices will indicate near 0mV. Shorted devices will indicate near 0mV and an open device will indicate "OL" in both polarities.



CONTACT TEMPERATURE MEASUREMENTS

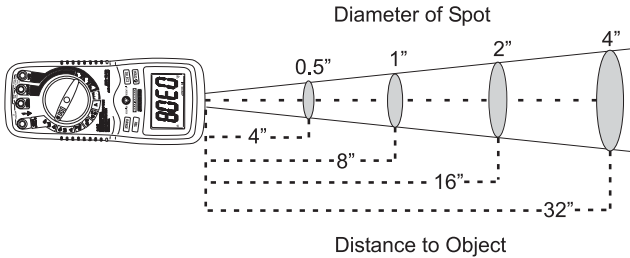
1. Set the function switch to the (K) °F or °C position.
2. Insert the Temperature Probe into the input jacks, making sure to observe the correct polarity.
3. Touch the Temperature Probe head to the part whose temperature you wish to measure. Keep the probe touching the part under test until the reading stabilizes (about 30 seconds).
4. Read the temperature in the display.



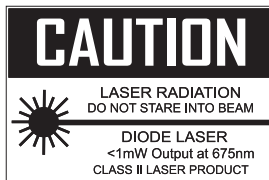
Note: The temperature probe is fitted with a type K mini connector. A mini connector to banana connector adaptor is supplied for connection to the input banana jacks.

NON-CONTACT TEMPERATURE MEASUREMENTS

1. Set the function switch to the Non-Contact (IR) °F or °C position.
2. Point the meter at the surface to be measured.
3. If needed, press the red IR Laser Pointer button to locate the exact spot being measured.
4. The area of the surface to be measured must be larger than the spot size as determined by the distance to spot size specification.
5. Read the temperature in the display.



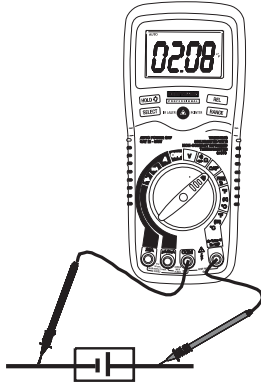
WARNING: Do not directly view or direct the laser pointer at an eye. Low power visible lasers do not normally present a hazard, but may present some potential for hazard if viewed directly for extended periods of time.



CAPACITANCE MEASUREMENTS

WARNING: To avoid electric shock, disconnect power to the unit under test and discharge all capacitors before taking any capacitance measurements. Remove the batteries and unplug the line cords.

1. Set the function switch to the CAP position.
2. Insert the black test lead banana plug into the negative (COM) jack.
Insert the red test lead banana plug into the positive (CAP) jack.
3. Touch the test leads to the capacitor to be tested.
4. Read the capacitance value in the display

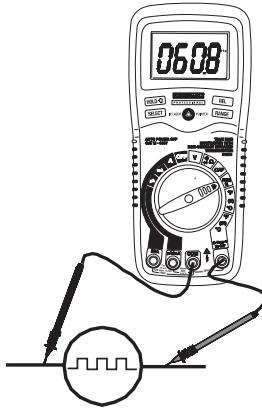


FREQUENCY MEASUREMENTS

1. Set the function switch to the "FREQ %" position.
2. Insert the black lead banana plug into the negative COM jack and the red test lead banana plug into the positive Hz jack.
3. Touch the test probe tips to the circuit under test.
4. Read the frequency on the display.

% DUTY CYCLE

1. Set the function switch to the "FREQ %" position.
2. Insert the black lead banana plug into the negative COM jack and the red test lead banana plug into the positive Hz jack.
3. Press the SELECT key momentarily to select % in the display.
4. Touch the test probe tips to the circuit under test.
5. Read the % duty cycle on the display.



AUTORANGE/MANUAL RANGE SELECTION

When the meter is first turned on, it automatically goes into AutoRanging. This automatically selects the best range for the measurements being made and is generally the best mode for most measurements. For measurement situations requiring that a range be manually selected, perform the following:

1. Press the RANGE key. The **AUTO** display indicator will turn off.
2. Press the RANGE key to step through the available ranges until you select the range you want.
3. To exit the Manual Ranging mode and return to AutoRanging, press and hold the RANGE key for 2 seconds.

Note: Manual ranging does not apply for the Capacitance, Frequency and Temperature functions.

RELATIVE MODE

The relative measurement feature allows you to make measurements relative to a stored reference value. A reference voltage, current, etc. can be stored and measurements made in comparison to that value. The displayed value is the difference between the reference value and the measured value.

1. Perform the measurement as described in the operating instructions.
2. Press the REL button to store the reading in the display and the "REL" indicator will appear on the display.
3. The display will now indicate the difference between the stored value and the measured value.
4. Press the REL button to exit the relative mode.

Note: The Relative function does not operate in the Frequency function.

DISPLAY BACKLIGHT

Press and hold the HOLD key for >1 second to turn on or off the display backlight function.

Note: The HOLD feature will activate when the Backlight is turned on. Press the HOLD key again to exit Data Hold.

DATA HOLD


The hold function freezes the reading in the display. Press the HOLD key momentarily to activate or to exit the hold function.

Note: In the Frequency mode, Data Hold will function only while a frequency is applied.


AUTO POWER OFF

The auto off feature will turn the meter off after 20 minutes.

LOW BATTERY INDICATION

The  icon will appear in the lower left corner of the display when the battery voltage becomes low. Replace the battery when this appears.

WRONG CONNECTION INDICATION

The  icon will appear in the upper right corner of the display and the buzzer will sound whenever the positive test lead is inserted into the 20A or uA/mA input jack and a non-current function is selected. If this occurs, turn the meter off and reinsert the test lead into the proper input jack for the function selected.

MAINTENANCE

WARNING: To avoid electric shock, disconnect the test leads from any source of voltage before removing the back cover or the battery cover.

WARNING: To avoid electric shock, do not operate your meter until the battery cover is in place and fastened securely.

This multimeter is designed to provide years of dependable service, if the following care instructions are performed:


1. **KEEP THE METER DRY.** If it gets wet, wipe it off.
2. **USE AND STORE THE METER IN NORMAL TEMPERATURES.** Temperature extremes can shorten the life of the electronic parts and distort or melt plastic parts.
3. **HANDLE THE METER GENTLY AND CAREFULLY.** Dropping it can damage the electronic parts or the case.
4. **KEEP THE METER CLEAN.** Wipe the case occasionally with a damp cloth. DO NOT use chemicals, cleaning solvents, or detergents.
5. **USE ONLY FRESH BATTERIES OF THE RECOMMENDED SIZE AND TYPE.** Remove old or weak batteries so they do not leak and damage the unit.
6. **IF THE METER IS TO BE STORED FOR A LONG PERIOD OF TIME,** the batteries should be removed to prevent damage to the unit.

UL LISTED

The UL mark does not indicate that this product has been evaluated for the accuracy of its readings.

BATTERY REPLACEMENT

WARNING: To avoid electric shock, disconnect the test leads from any source of voltage before removing the battery cover.

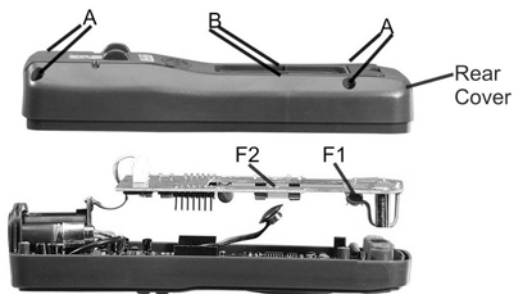
1. When the battery becomes exhausted or drops below the operating voltage, “” will appear in the left-hand side of the LCD display. The battery should be replaced.
2. Follow instructions for installing batteries. See the Battery Installation section of this manual.
3. Dispose of the old batteries properly.

WARNING: To avoid electric shock, do not operate your meter until the battery cover is in place and fastened securely.

NOTE: If your meter does not work properly, check the fuses and batteries to make sure that they are still good and that they are properly inserted.

FUSE REPLACEMENT

WARNING: To avoid electric shock, disconnect the test leads from any source of voltage before removing the battery cover.



1. Disconnect the test leads from the meter.
2. Remove the protective rubber holster.
3. Remove the battery cover (two “B” screws).
4. Disconnect and remove the battery.
5. Remove the four “A” screws securing the rear cover.
6. Remove the rear cover.
7. Lift the center circuit board straight up from the connectors to gain access to the fuse holders.
8. Gently remove the old fuse and install the new fuse into the holder.
9. Always use a fuse of the proper size and value (0.5A/250V fast blow for the 400mA range, 20A/250V fast blow for the 20A range).
10. Align the center board with the connectors and gently press into place.
11. Replace and secure the rear cover, battery, battery cover and screws.

WARNING: To avoid electric shock, do not operate your meter until the battery cover is in place and fastened securely.

TROUBLESHOOTING

There may be times when your meter does not operate properly. Here are some common problems that you may have and some easy solutions to them.

Meter Does Not Operate:

1. Always read all the instructions in this manual before use.
2. Check to be sure the battery is properly installed.
3. Check to be sure the battery is good.
4. If the battery is good and the meter still doesn't operate, check to be sure that both ends of the fuse are properly installed.

If You Do Not Understand How the Meter Works:

1. Purchase "Multitesters and Their Use for Electrical Testing", (Item No. 82303).
2. Call our Customer Service Line **1-888-326-1006**.

SERVICE AND PARTS

Item Number	Description
82376	Fuse kit
93894	9V battery
82378	Set of black and red Test Leads
81079-D	Replacement battery cover
81079-C	Front Cover
81079-CS	Rear cover screws
82377	Thermocouple probe

For replacement parts shipped directly to your home
Call 9 am – 5 pm Eastern Time, M - F
1-888-326-1006