

Operating Instructions
**DT-3374 MaintenancePRO™ 1000A TrueRMS AC/DC
Clamp Meter with MApp™ Mobile App**

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Introduction

The MaintenancePRO™ 1000A TrueRMS AC/DC Clamp Meter with MApp™ Mobile App measures AC and DC current up to 1000A and offers a CAT IV 600V/CAT III 1000V safety rating. Other functions include AC and DC Voltage, Resistance, Continuity, Capacitance, Frequency, Duty Cycle, Temperature, and Diode Test. A built-in flashlight and non-contact AC voltage detector provide added convenience. The wirelessly transmits data to the MApp™ mobile app via Bluetooth® allowing you to view, save, organize and share datalogs as well as take measurements from a safe distance. Visit metersapp.southwire.com for mobile app download information. This meter is fully tested and calibrated and, with proper use, will provide many years of reliable service.

WARNINGS

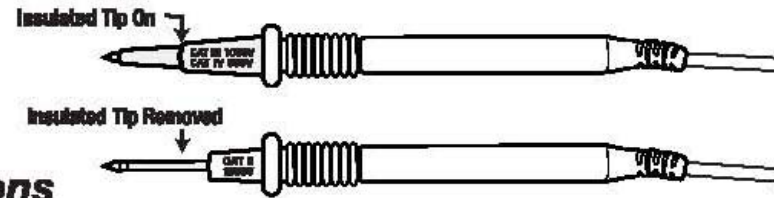
- Read, understand and follow Safety Rules and Operating Instructions in this manual before using this meter.
- The meter's safety features may not protect the user if not used in accordance to the manufacturer's instructions.
- Ensure that the test leads are fully seated in the input jacks and keep fingers away from the metal probe tips when taking measurements.
- Before changing functions using the selector switch, always disconnect the test leads from the circuit under test.
- Use only UL listed test leads with the proper safety category rating.
- Comply with all safety codes. Use approved personal protective equipment when working near live electrical circuits - particularly with regard to arc-flash potential.
- Use caution when working on or near bare conductors or bus bars.
- Use caution on live circuits. Voltages above 30 V AC RMS, 42 V AC peak, or 60 V DC pose a shock hazard.
- Do not use meter or test leads if they appear damaged.
- Do not use the meter in wet or damp environments or during electrical storms.
- Do not use the meter near explosive vapors, dust or gasses.
- Do not use the meter if it operates incorrectly.
Protection may be compromised.
- Do not operate meter while Low Battery warning is on.
Replace the battery immediately.
- Verify meter's operation by measuring known voltage.
- Do not apply voltage or current that exceeds the meter's maximum rated input limits.

Input Limits

Function	Maximum Input
Amperage AC/DC	1000A AC/DC
Voltage AC/DC	1000V AC/DC
Frequency, Duty Cycle, Resistance, Diode Test, Continuity, Capacitance	600V AC/DC
Temperature (°C/°F)	600V AC/DC

⚠ WARNING: Operation of meter and test leads is limited to CAT II 1000V when the insulated tip is removed from the test probes.






Test Leads



General Specifications

Clamp jaw opening	1.9" (48mm)
Diode Test	Test current of 0.3mA typical; Open circuit voltage < 2V DC typical
Continuity Test	Threshold <35Ω ± 5Ω, Test current <0.5mA
Low Battery Indication	⚡ is displayed
Display	50,000 count backlit LCD
Over Range Indication	"OL" is displayed
Measurement Rate	3 readings per second, nominal
Input Impedance	10MΩ (VAC and VDC)
Operating Temperature	41° to 104°F (5° to 40°C)
Storage Temperature	-4° to 140°F (-20° 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 (2000 meters) maximum
Battery	One 9V Battery
Auto Power Off	After approx. 30 minutes
Dimensions/Weight	9" x 3" x 1.6" (230 x 76 x 40mm) / 0.69lb (315g)
Safety	For indoor use in accordance with UL-61010-1 3rd edition. It has been evaluated and complies with overvoltage CAT IV 600V and CAT III 1000V. Pollution Degree 2.

International Safety Symbols

	Potential danger. Indicates the user must refer to the manual for important safety information
	Indicates hazardous voltages may be present
	Equipment is protected by double or reinforced insulation
	Indicates the terminal(s) so marked must not be connected to a circuit where the voltage with respect to earth ground exceeds the maximum safety rating of the meter
	Indicates the terminal(s) so marked may be subjected to hazardous voltages

Safety Category Ratings

Category Rating	Brief Description	Typical Applications
CAT II	Single phase receptacles and connected loads	<ul style="list-style-type: none"> - Household appliances, power tools - Outlets more than 30ft (10m) from a CAT III source - Outlets more than 60ft (20m) from a CAT IV source
CAT III	Three phase circuits and single phase lighting circuits in commercial buildings	<ul style="list-style-type: none"> - Equipment in fixed installations such as 3-phase motors, switchgear and distribution panels - Lighting circuits in commercial buildings - Feeder lines in industrial plants - Any device or branch circuit that is close to a CAT III source
CAT IV	Connection point to utility power and outdoor conductors	<ul style="list-style-type: none"> - Primary distribution panels - Overhead or underground lines to detached buildings - Incoming service entrance from utility - Outdoor pumps

The measurement category (CAT) rating and voltage rating is determined by a combination of the meter, test probes and any accessories connected to the meter and test probes. The combination rating is the LOWEST of any individual component.

FCC COMPLIANCE

Users of this product are cautioned not to make modifications or changes that are not approved by CEM Corp., doing so may void the compliance of this product and may result in the loss of the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules and with RSS-247 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that can cause undesired operation.

FCC Digital Emissions Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the radio or television receiving antenna.
- Increase the separation between the computer equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the radio or television receiver is connected.
- Consult the dealer or an experienced radio television technician for help.

Canadian Digital Apparatus Compliance

CAN ICES-3 (B)/NMB-3(B) * Indicates class A or B

**This device complies with Industry Canada licence-exempt RSS standard(s).
Operation**

is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

Maintenance

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

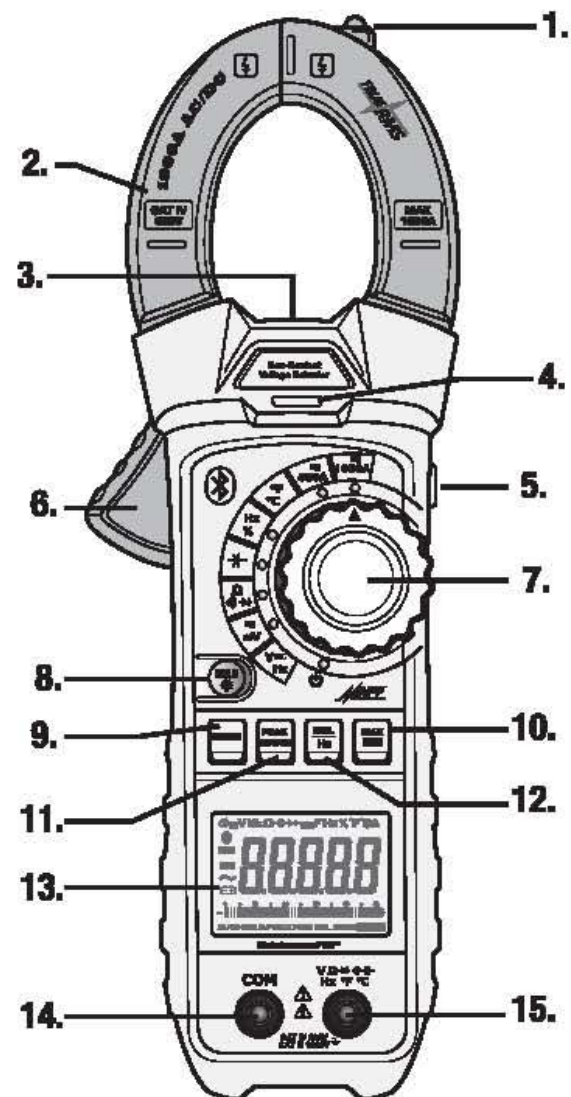
- 1、KEEP THE METER DRY, If it gets wet, wipe it off.**
- 2、USE AND STORE THE METER IN NORMAL TEMPERATURES. Temperature extremes can shorten the life of the electronic parts and distort or melt plastic parts.**
- 3、HANDLE THE METER GENTLY AND CAREFULLY. Dropping it can damage the electronic parts or the 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 BE STORED FOR A LONG PERIOD OF TIME, the battery should be removed to prevent damage to the unit.**

This device complies with FCC and Industry Canada RF radiation exposure limits set forth for general population (uncontrolled exposure).

This device must not be collocated or operating in conjunction with any other antenna or transmitter.

Meter Description

1. Non-contact voltage detector
2. Current clamp
3. LED flashlight
4. Non-contact AC voltage indicator
5. Bluetooth/Flashlight On/Off button
6. Clamp trigger
7. Rotary function switch
8. Data HOLD/Backlight button
9. MODE select button
10. MAX/MIN button
11. PEAK/INRUSH button
12. REL/Hz button
13. LCD display
14. COM Input Jack
15. V Ω \rightarrow \rightarrow Hz% $^{\circ}$ F/ $^{\circ}$ C input jack




**Symbols
Used on
LCD Display**




V	Volts
A	Amperes
~	Alternating current
---	Direct current
-	Minus sign
Ω	Ohms
⌘	Bluetooth®
• 	Continuity
▶	Diode test
F	Farads (capacitance)
Hz	Hertz (frequency)
%	Percent (duty ratio)
°F	Degrees Fahrenheit
°C	Degrees Celsius
n	nano (10⁻⁹)
μ	micro (10⁻⁶)
m	milli (10⁻³)
k	kilo (10³)
M	mega (10⁶)
OL	Overload
⏻	Auto Power Off
🔋	Low battery
AUTO	Autoranging
HOLD	Display hold
MAX/MIN	Maximum/Minimum
P MAX/P MIN	Peak Maximum /Peak Minimum
REL	Relative
INRUSH	Inrush current

Operation

HOLD/Backlight Button

To freeze the reading on the LCD display, momentarily press the **HOLD**  button. The **"HOLD"** indicator will be displayed while the reading is being held.

Momentarily press the **HOLD**  button again to return to normal operation.

The backlight automatically illuminates the LCD display for 30 seconds when meter is initially turned on. When backlight is on, it can be turned off by pressing and holding the **HOLD**  button. When backlight is off, it can be turned on using the same method. **NOTE:** Once the backlight is manually turned on, it will remain on until the meter is turned off.

NOTE: The backlight stays on for approximately 30 seconds when the meter is initially turned on and when the **HOLD**  button is pressed.

MODE BUTTON

The MODE button is used to select AC or DC when the meter is set to voltage or current, to select Resistance, Diode Test or Continuity when set to ohms, to select °F or °C when set to temperature, and to select Hz or % Duty Cycle when set to frequency.

PEAK/INRUSH Button

The PEAK function captures the highest positive and highest negative peak on an AC voltage or AC current waveform. The readings will update every time a higher positive or negative peak is detected. To activate, press and hold the **PEAK/INRUSH** button for approximately 2 seconds. The **"PMAX"** indicator will appear on the LCD display along with the highest positive peak. To view the negative peak, momentarily press the **PEAK/INRUSH** button. The **"PMIN"** indicator will appear along with the highest negative peak. Momentarily press the **PEAK/INRUSH** button to return to PMAX. To return to normal operation, press and hold the **PEAK/INRUSH** button until the **"AUTO"** indicator appears on the LCD display.

The INRUSH function is used to calculate the startup current over a 100mS time period. This is useful for capturing current surges when motors and other devices are initially energized. To measure INRUSH current, momentarily press the **PEAK/INRUSH** button when the device being tested is powered off.

The **"INRUSH"** indicator will appear on the LCD display. As soon as power is applied, the meter will display and hold the INRUSH current reading. To return to normal operation, momentarily press the **PEAK/INRUSH** button.

Operation cont.

REL/HZ Button

The RELATIVE function zeros out the reading on the display and stores it as a reference. Subsequent readings will be displayed as the relative difference between the actual measurement and the stored reference value. To activate, momentarily press the **REL/HZ** button. The "REL" indicator will appear on the LCD display along with the relative reading. Momentarily press the **REL/HZ** button again to return to normal operation.

To select Frequency when the meter is set to AC Voltage or AC Current, press and hold the **REL/HZ** button until the "Hz" indicator appears on the LCD display. To display Duty Cycle, press and hold the **REL/HZ** button again until the "%" indicator appears on the LCD display. While displaying % Duty Cycle, press and hold the **REL/HZ** button to return to voltage or current readings.

MAX/MIN Button


The **MAX/MIN** function displays the highest and lowest measurements.


The readings are updated every time a higher or lower measurement is captured.

To activate, momentarily press the **MAX/MIN** button. "MAX" will appear on the LCD display along with the highest reading. Momentarily press the **MAX/MIN** button to sequence the meter from MAX to MIN, from MIN to the actual reading, and from the actual reading back to MAX. "MIN" will appear when the lowest reading is displayed and "MAX MIN" will appear when the actual reading is displayed. Press and hold the **MAX/MIN** button to end MAX/MIN and return to normal operation. (MAX/MIN does not operate on Resistance, Continuity, or Capacitance)

Bluetooth® / Flashlight Button

Bluetooth® allows readings to be displayed and stored on mobile devices.

To activate Bluetooth®, press and hold the blue button on the side of the meter until the  symbol appears on the LCD display. Bluetooth® should be disabled when not connected to a mobile device in order to conserve battery power.

To turn off Bluetooth®, press and hold the blue button until the  symbol no longer appears on the display.

Visit nextgenmeters.southwire.com for mobile app download information.

To turn the **Flashlight** on, momentarily press the **blue button** on the side of the meter. Momentarily press the **blue button** again to turn the flashlight off.

Operation cont.

Auto Power Off

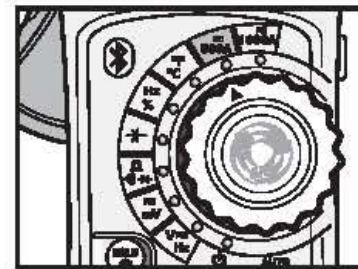
To conserve battery power, the meter automatically turns off after approximately 30 minutes. To reset the meter after it turns off, set the rotary function switch to the off position and then set the switch to the desired function.

To disable Auto Power Off, set the rotary function switch to the Off position. Press and hold the **MODE** button while setting the rotary function switch to the desired function. **APO d** will appear on the LCD display indicating Auto Power Off is disabled. Release the **MODE** button. The \odot symbol will not be displayed while Auto Power Off is disabled. Auto Power Off can be restored by turning the meter off. As soon as the meter is turned back on, the \odot symbol will reappear on the LCD display indicating Auto Power Off is active.

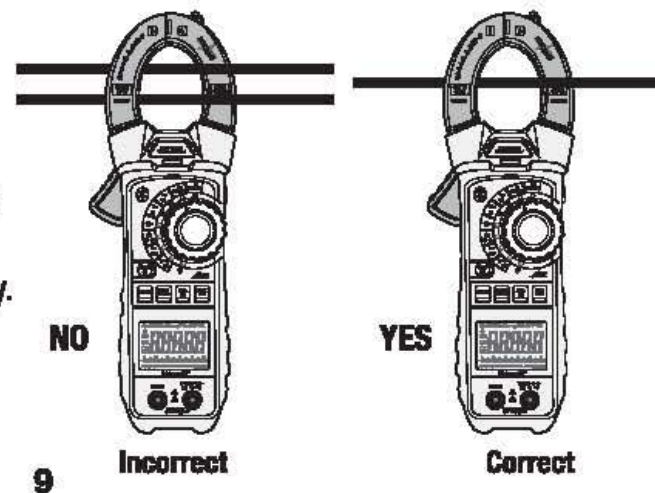
AC/DC Current Measurements

⚠ WARNINGS: Disconnect the test leads and temperature probe from the meter before making current clamp measurements. Do not measure current on conductors that are more than 600V above earth ground if in a CAT IV application or more than 1000V above earth ground if in a CAT III application. Observe safety precautions when working on live circuits.

1. Set the rotary function switch to the **500A** or **1000A** position.
2. If the range is not known, select the higher range first, and then move to the lower range if necessary.
3. Select AC (\sim) or DC (---) by pressing the **MODE** button. In the DC mode, allow time for the meter to Zero before taking a measurement. If necessary, press the **REL/Hz** button to Zero out any DC offset. Zeroing the meter is not necessary when measuring AC current.



4. Press the trigger to open the jaw.
Clamp around a single conductor making sure the jaws are fully closed before taking a measurement. For best results, keep the conductor centered inside the jaw.
5. Read the current on the LCD display.

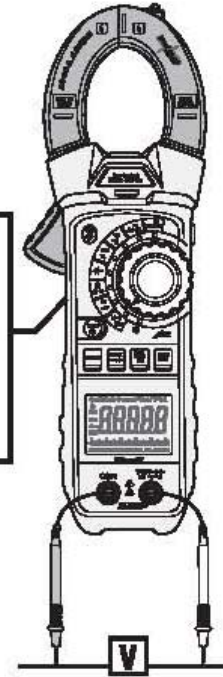
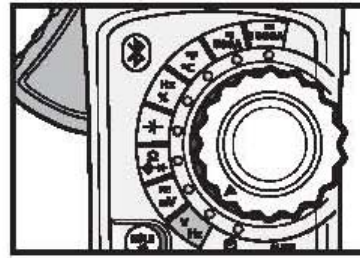


Operation cont.

AC/DC Voltage Measurements

⚠ WARNING: Observe all safety precautions when working on live voltages.

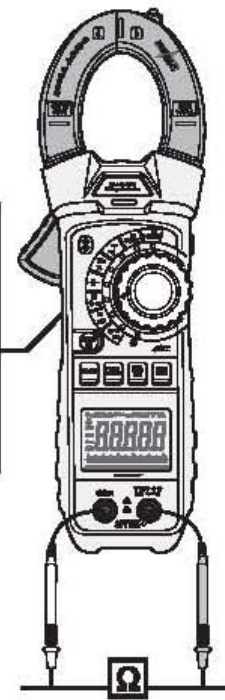
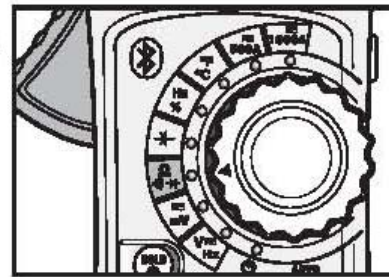
1. For voltage measurements up to 1000V, set the rotary function switch to the **V** position. For measurements 500mV or less, set the rotary function switch to the **mV** position.
2. Select **AC** (⎓) or **DC** (—) by pressing the **MODE** button.
3. Insert the black test lead into the **COM** input jack and the red test lead into the **V** input jack. Touch the test lead probes to the circuit under test. For DC measurements, Touch the red test lead to the positive side of the circuit and the black test lead to the negative side of the circuit.
4. Read the voltage on the LCD display.



Resistance Measurements

⚠ WARNING: Never test resistance on a live circuit.


1. Set the rotary function switch to the **Ω** position.
2. Press the **MODE** button until the "Ω" symbol appears on the display.
3. Insert the black test lead into the **COM** input jack and the red test lead into the **Ω** input jack.
4. Touch the test lead probes to the component under test. If the component is installed in a circuit, it is best to disconnect one side before testing to eliminate interference from other devices.
5. Read the resistance on the LCD display.

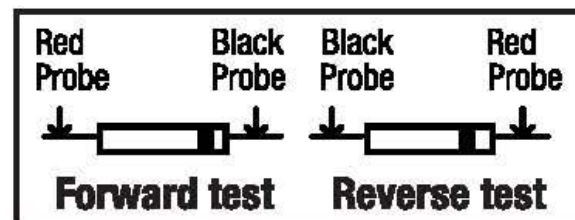
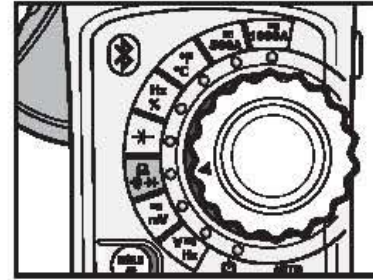


Operation cont.

Diode Test

⚠ WARNING: Never test diodes in a live circuit.



1. Set the rotary function switch to the Ω  \rightarrow position.
2. Press the **MODE** button until the \rightarrow symbol appears on the display.
3. Insert the black test lead into the **COM** input jack and the red test lead into the Ω input jack.
4. Touch the test lead probes to the diode under test.
5. Forward voltage will indicate 0.4V to 0.7V on the LCD display. Reverse voltage will indicate "OL". Shorted devices will indicate near 0V and an open device will indicate "OL" in both polarities.

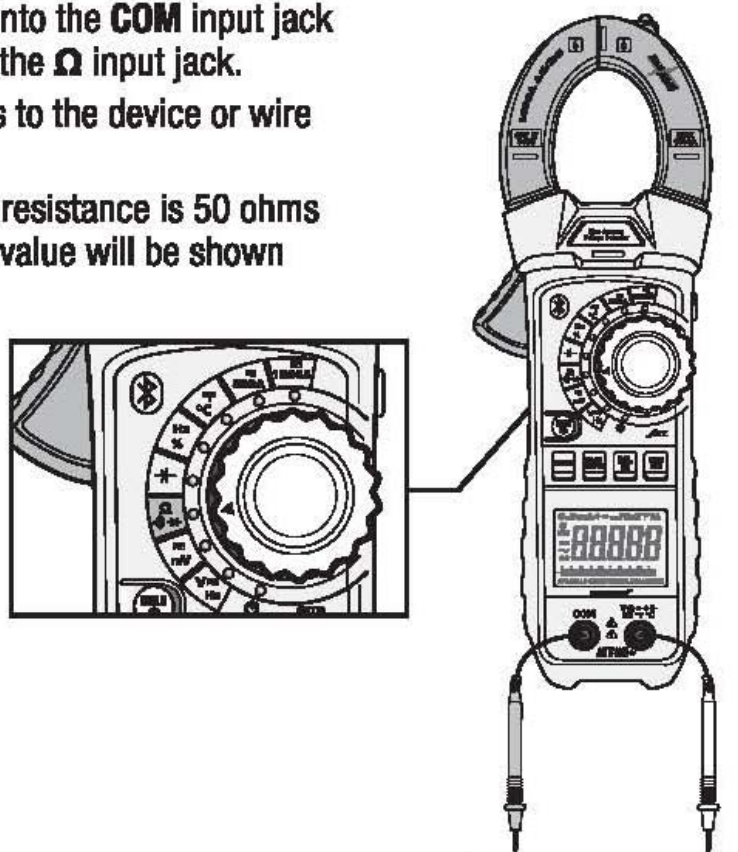


Operation cont.

Continuity Test

⚠ WARNING: Never test continuity on a live circuit.

1. Set the rotary function switch to the Ω  \rightarrow position.
2. Press the **MODE** button until the  symbol appears on the display.
3. Insert the black test lead into the **COM** input jack and the red test lead into the Ω input jack.
4. Touch the test lead probes to the device or wire under test.
5. A beeper will sound if the resistance is 50 ohms or less and the resistance value will be shown on the LCD display.

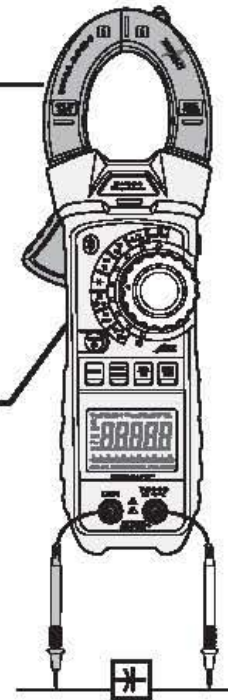
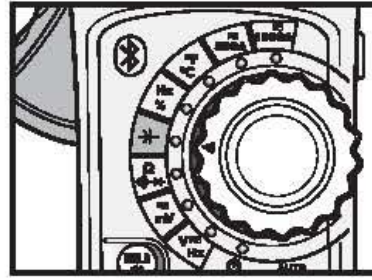


Operation cont.

Capacitance Test

⚠ WARNING: Safely discharge capacitors before taking capacitance measurements.

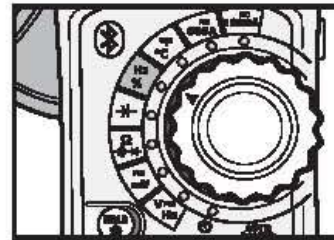
1. Set the rotary function switch to the C position.
2. Insert the black test lead into the **COM** input jack and the red test lead into the C input jack.
3. Touch the test lead probes to the capacitor being tested.
4. Read the capacitance value on the LCD display. Large capacitors may take up to a minute to get a stable reading.



Frequency and Duty Cycle Measurements

⚠ WARNING: Observe all safety precautions when working on live voltages.

1. Set the rotary function switch to the **Hz** position.
2. Press the **MODE** button to select Frequency (Hz) or Duty Cycle (%). The "Hz" or "%" symbol will appear on the LCD display.
3. Insert the black test lead into the **COM** input jack and the red test lead into the **Hz %** input jack.
4. Touch the test lead probes to the circuit being tested.
5. Read the frequency or duty cycle on the LCD display.
6. To measure frequency when in the AC voltage or AC current function, press and hold the **REL/Hz** button until the "Hz" indicator appears on the LCD display. To measure Duty Cycle, press and hold the **REL/Hz** button a second time until the "%" indicator appears. The measurements will be made through the test leads when the meter is set to AC voltage and through the clamp jaws when the meter is set to AC current. To exit Duty Cycle, press and hold the **REL/HZ** button until the meter returns to voltage or current readings. Refer to specifications in the manual for frequency range and sensitivity.

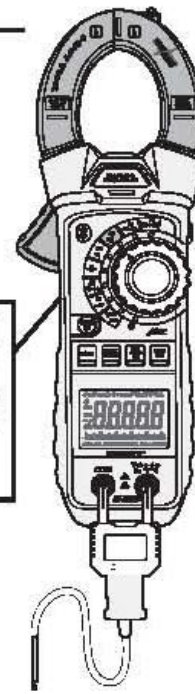
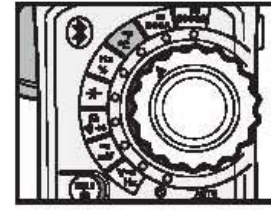


Operation cont.

Temperature Measurements

⚠ WARNING: Do not touch the temperature probe to live circuits.

1. Set the rotary function switch to the °F °C position.
2. Connect the Temperature Probe to the Banana Plug Adapter.
Note the – and + markings on the adapter.
Connect the adapter to the meter, making sure the – side goes into the **COM** input jack and the + side goes into the °F °C input jack.
3. Press the **MODE** button to select readings in °F or °C.
4. Touch the tip of the Temperature Probe to the object being measured. Keep the probe touching the object until the reading stabilizes (about 30 sec).
5. Read the temperature on the LCD display.

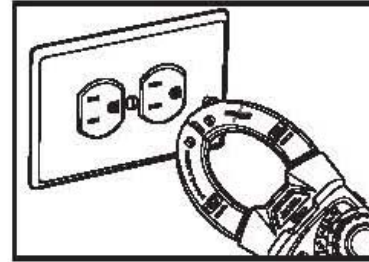


⚠ WARNING: To avoid electric shock, remove the temperature probe before changing to another measurement function.

Non-Contact AC Voltage Detector (110 to 1000V AC)

⚠ WARNING: Risk of Electrocution. Before use, always test the Voltage Detector on a known live circuit to verify proper operation.

1. The non-contact voltage detector operates when the meter is set to any measuring function.
The detector does not operate when Auto Power Off turns the meter off or when the rotary function switch is set to the off ⏏ position.
2. Slowly move the detector probe closer to the conductor being tested.
3. If AC voltage within the specified range is present, the indicator light will illuminate.




⚠ WARNING: Insulation type and thickness, distance from the source, and other factors may effect operation. Always verify live voltage using other methods before working on electrical circuits.

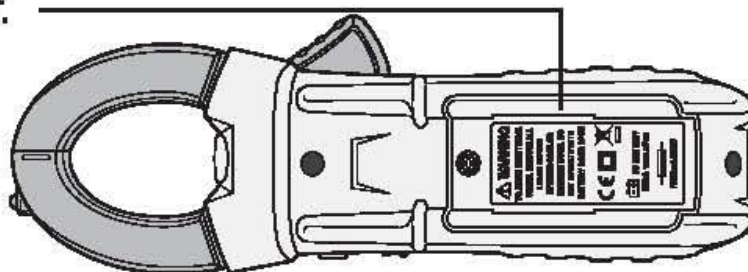
NOTES : The detector is designed with high sensitivity. Static electricity and other sources of electrical energy may randomly activate the detector. This is normal operation. The detector only activates the indicator light when AC voltage is present. It does not indicate the voltage level on the LCD display.

Operation cont.

Battery Replacement

⚠ WARNINGS: To avoid electric shock, remove the test leads from the meter before removing the battery cover.

1. When the battery is depleted, the  symbol will appear on the LCD display. Replace the battery immediately.
2. Use a small flat bladed screwdriver to loosen the one screw.
3. Remove the battery cover.
4. Replace the battery with one 9 volt battery.
5. Install the battery cover and tighten the screw.



⚠ WARNING: To avoid electric shock, do not operate the meter until the battery cover is securely fastened to the meter.

Specifications

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
AC Current	500.00A	10mA	$\pm(2.5\% + 5 \text{ digits})$
	1000.0A	0.1A	

Maximum Input: 1000A AC rms or 1000A DC
 AC current bandwidth: 50 to 60Hz
 AC current accuracy is specified from 5% to 100% of range.

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
DC Current	500.00A	10mA	$\pm(2.5\% + 5 \text{ digits})$
	1000.0A	0.1A	

Maximum Input: 1000A AC rms or 1000A DC

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
AC mV	500.00mV	0.01mV	$\pm(1.0\% + 30 \text{ digits})$
AC Voltage (Autoranging)	5.0000V	0.1mV	
	50.000V	1mV	
	500.00V	10mV	$\pm(3.0\% + 8 \text{ digits})$
	1000.0V	0.1V	

Input Protection 500mV: 600V AC rms or 600V DC
 Input Protection 5V/50/500/1000V: 1000V AC rms or 1000V DC
 AC voltage bandwidth: 50 to 1000Hz
 AC voltage accuracy is specified from 5% to 100% of range.

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
DC mV	500.00mV	0.01mV	$\pm(1.0\% + 8 \text{ digits})$
DC Voltage (Autoranging)	5.0000V	0.1mV	
	50.000V	1mV	
	500.00V	10mV	$\pm(1.5\% + 3 \text{ digits})$
	1000.0V	0.1V	

Input Protection 500mV: 600V AC rms or 600V DC
 Input Protection 5V/50/500/1000V: 1000V AC rms or 1000V DC

Specifications cont.

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
Resistance (Autoranging)	500.00 Ω	0.01 Ω	$\pm(1.0\% + 9 \text{ digits})$
	5.0000k Ω	0.1 Ω	$\pm(1.0\% + 5 \text{ digits})$
	50.000k Ω	1 Ω	
	500.00k Ω	10 Ω	
	5.0000M Ω	100 Ω	$\pm(2.0\% + 10 \text{ digits})$
	50.000M Ω	1k Ω	$\pm(3.0\% + 10 \text{ digits})$

Input Protection: 600V AC rms or 600V DC

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
Capacitance (Autoranging)	500.00nF	10pF	$\pm(3.5\% + 40 \text{ digits})$
	5000.0nF	0.1nF	$\pm(5.0\% + 10 \text{ digits})$
	50.000 μ F	1nF	
	500.00 μ F	10nF	
	5.000mF	1 μ F	

Input Protection: 600V AC rms or 600V DC

Frequency and Duty Cycle through test leads when the meter is set to Hz %

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
Frequency (Autoranging)	50.000Hz	0.001Hz	$\pm(0.3\% + 2 \text{ digits})$
	500.00	0.01Hz	
	5.0000kHz	0.1Hz	
	50.000kHz	1Hz	
	500.00kHz	10Hz	
	5.0000MHz	100Hz	
	10.000MHz	1kHz	

Input Protection: 600V AC rms or 600V DC

Sensitivity: >5V AC rms

Specifications cont.

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
Duty Cycle	5.0% to 95.0%	0.1%	$\pm(1.0\% + 2 \text{ digits})$

Input Protection: 600A AC rms or 600V DC
 Pulse Width: 100 μ S to 100mS
 Frequency: 10Hz to 10kHz
 Sensitivity: >5V RMS

Frequency and Duty Cycle through test leads when the meter is set to AC voltage

Function	Range	Accuracy (% of reading + digits)
Frequency (Autoranging)	40Hz to 1kHz	$\pm(1.0\% \pm 5 \text{ digits})$
Duty Cycle	5% to 95.0%	$\pm(1.5\% \pm 10 \text{ digits})$

Input Protection: 1000V AC rms or 1000V DC
 Frequency Range: 40Hz to 1kHz
 Sensitivity: >15V RMS

Frequency and Duty Cycle through jaws when meter is set to AC current

Function	Range	Accuracy (% of reading + digits)
Frequency (Autoranging)	40Hz to 1kHz	$\pm(1.0\% \pm 5 \text{ digits})$
Duty Cycle	5% to 95%	$\pm(1.5\% \pm 10 \text{ digits})$

Maximum Input: 1000A AC rms or 1000A DC
 Frequency Range: 40Hz to 1 kHz
 Sensitivity: >50A

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
Temperature	-148.0 to 1832.0°F	0.1°F	$\pm(1\% + 4.5^\circ\text{F})$
	-100.0° to 1000.0°C	0.1°C	$\pm(1\% + 2.5^\circ\text{C})$

Input Protection: 600V AC rms or 600V DC
 Sensor: Type K Thermocouple