



UEi TEST iNSTRUMENT DL569 Dual Display Clamp Meter Instruction Manual

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UEi TEST INSTRUMENT DL569 Dual Display Clamp Meter



Warranty

The DL569 is warranted to be free from defects in materials and workmanship for a period of 1 year from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at UEi's option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries and consequential damage resulting from failed batteries are not covered by warranty. Any implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the express warranty. UEi shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss. Warranty only covers hardware and does not extend to software applications. A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge.

Disposal

CAUTION: This symbol indicates that equipment and its accessories shall be subject to separate collection and correct disposal.

Cleaning

Periodically clean your meter's case using a damp cloth. DO NOT use abrasive, flammable liquids, cleaning solvents, or strong detergents as they may damage the finish, impair safety, or affect the reliability of the structural components.

Storage

Remove the batteries when instrument is not in use for a prolonged period of time. Do not expose to high temperatures or humidity. After a period of storage in extreme conditions exceeding the limits mentioned in the General Specifications section, allow the instrument to return to normal operating conditions before using it.

Functions

- 750V AC/1000V DC
- millivolts DC
- 400A AC
- Diode test
- Audible continuity
- Resistance: 40kΩ

Features

- Dual display
- Auto ranging
- Low battery indicator
- Data Hold
- Auto power off
- Test lead storage
- Auto calibration
- Built-In Magnet w/ hanging strap: (Optional)

General Specifications

- Operating Temperature: 32° to 122°F (0° to 50°C)
- Storage Temperature: -4° to 140°F (-20° to 60°C)
- Operating Humidity: <80%
- Pollution Degree: 2
- Display: 3 3/4 digits, 4,000 count
- Refresh Rate: 3/sec
- Over-range: "OL" is displayed
- Apo: Auto power off after 30 minutes of use.
- Dimensions: 8.70" x 2.52" x 1.41"
- Item Weight: 0.62 lbs
- CAT Rating: CATIV 300V, CATIII 600V
- Certifications: cETLus UL 61010-1: 2012, IP42
- Battery Type: (AAA) 2

Important Safety Warnings

WARNING

Read entire Safety Notes section regarding potential hazards and proper instructions before using this meter. In this manual the word “WARNING” is used to indicate conditions or actions that may pose physical hazards to the user. The word “CAUTION” is used to indicate conditions or actions that may damage this instrument.

- To ensure safe operation and service of the tester, follow these instructions. Failure to observe these warnings can result in severe injury or death.
- Before each use, verify meter operation by measuring a known voltage or current.
- Never use the meter on a circuit with voltages that exceed the category based rating of this meter.
- Do not use this meter during electrical storms or in wet weather.
- Do not use the meter or test leads if they appear damaged.
- Ensure meter leads are fully seated and keep fingers away from the metal probe contact when making measurements. Always grip the leads behind the finger guards molded into the probe. For information on test lead shields instructions on page 19.
- Do not open the meter to replace batteries while the probes are connected.
- Use caution when working with voltages above 60 DC or 25 AC RMS. Such voltages pose shock hazards.
- To avoid false readings that can lead to electrical shock, replace batteries if a low battery indicator appears.
- Unless measuring voltage or current, shut off and lockout power before measuring resistance or capacitance.
- Always adhere to national and local safety codes. Use proper personal protective equipment (PPE) to prevent shock and arc blast injury where hazardous live conductors are exposed.
- Always turn off power to a circuit or assembly under test before cutting, unsoldering or breaking the current path. Even small amounts of current can be dangerous.
- Always disconnect the live test lead before disconnecting the common test lead from the circuit.
- In the event of electrical shock, ALWAYS bring the victim to the emergency room for evaluation, regardless of victim's apparent recovery. Electrical shock can cause unstable heart rhythms that may need medical attention.
- If any of the following occur during testing, turn off the power source to the circuit being tested: arcing, flame, smoke, extreme heat, smell of burning materials or discoloration or melting of components.

WARNING

Higher voltages and currents require greater awareness of physical safety hazards. Before connecting the test leads; turn off power to the circuit under test, set meter to the desired function and range; connect the test leads to the meter first, then connect to the circuit under test. Reapply power. If an erroneous reading is observed, disconnect power immediately and recheck all settings and connections.

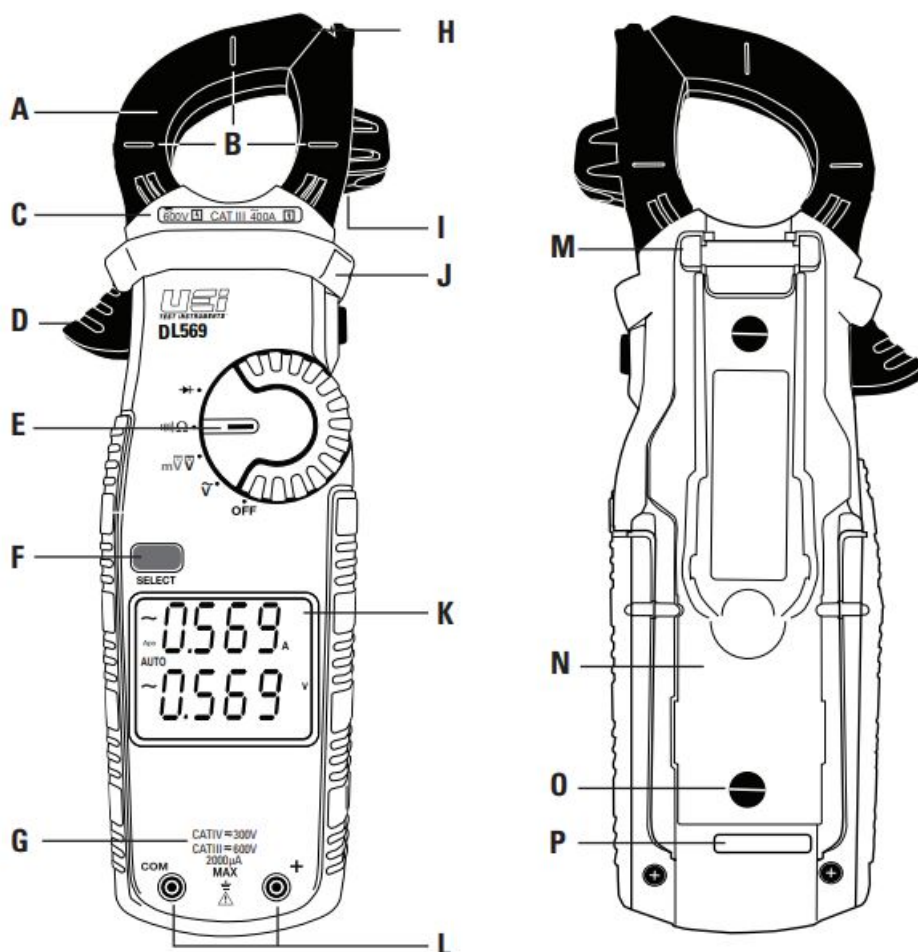
WARNING

This meter is designed to provide HVAC/R technicians with the capabilities they need to diagnose and repair HVAC/R system. Observe all recommended safety procedures that include proper lockout utilization and use of personal protective equipment that includes safety glasses, gloves and flame resistant clothing.

Symbols

~	AC (Alternating current)	==	DC (Direct current)
—	Negative	OL	Overload: Range Exceeded
Apo	Auto power off Active	HOLD	Hold/Capture Value
+	Low Battery	Ω	Ohms/Resistance
V	Voltage)	Continuity
A	Amperage	m	Milli ($\times 10^{-3}$ or 0.001)
▶	Diode	⏏	Ground
k	Kilo ($\times 10^3$ or 1,000)	□	Double Insulation (Protection to Class II)
⚠	Warning or Caution	- - - -	No reading detected
⚡	Dangerous Levels	k Ω	Kilo Ohms
⚡	Safe for disconnect from live conductors		

Overview



- A. Clamp: Measure inductive AC current. Opens to 1.25" (32.0mm).
- B. Conductor Alignment Marks: Use to aid the visual alignment of a conductor when measuring inductive

amperage. Greatest accuracy is achieved when the conductor inside the clamp is centered at the intersection of these marks.

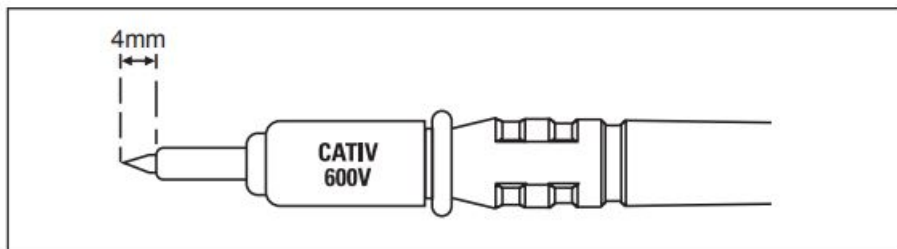
- C. Category Max Indicator: Maximum CAT Rating for clamp jaw.
- D. Clamp Lever: Opens and closes current clamp jaw.

NOTE: The clamp uses a high-tension spring to close the jaw. Do not allow fingers or objects to become pinched in the base as the jaws close.

- E. Rotary Selector Dial: Set Rotary Selector Dial desired function
- F. SELECT Button:
 - Press select DCmV or DCV on Voltage setting; to activate Ohms, Continuity on Ohms/Continuity setting
- G. Category Max Indicator: Maximum CAT Rating for input jacks.
- H. Wire Separation Tab: Use to isolate an individual wire from a bundle for testing.
- I. Test Lead Holder
- J. Hand Guide: Used as a point of reference for the operator's safety.
- K. Display:
 - Amps (AC/DC) reading will always display on upper display.
- L. Test Lead Input Jacks: Multifunction and Positive input jacks.
 - Multifunction input port used for measuring: AC or DC volts, resistance, continuity, diode.
- M. Bracket for optional magnetic holder strap (sold separately).
- N. Battery Cover: Easy access for replacing batteries without breaking calibration seal.
- O. Battery Compartment Latches
- P. Serial Number

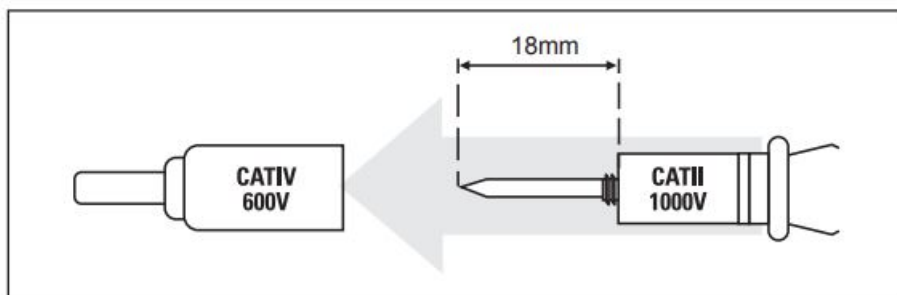
Test Lead Notes

Cat IV and CAT II Measurement Locations



- Ensure the test lead shield is pressed firmly in place. Failure to use the CAT IV shield increases arc-flash risk.

CAT II Measurement Locations

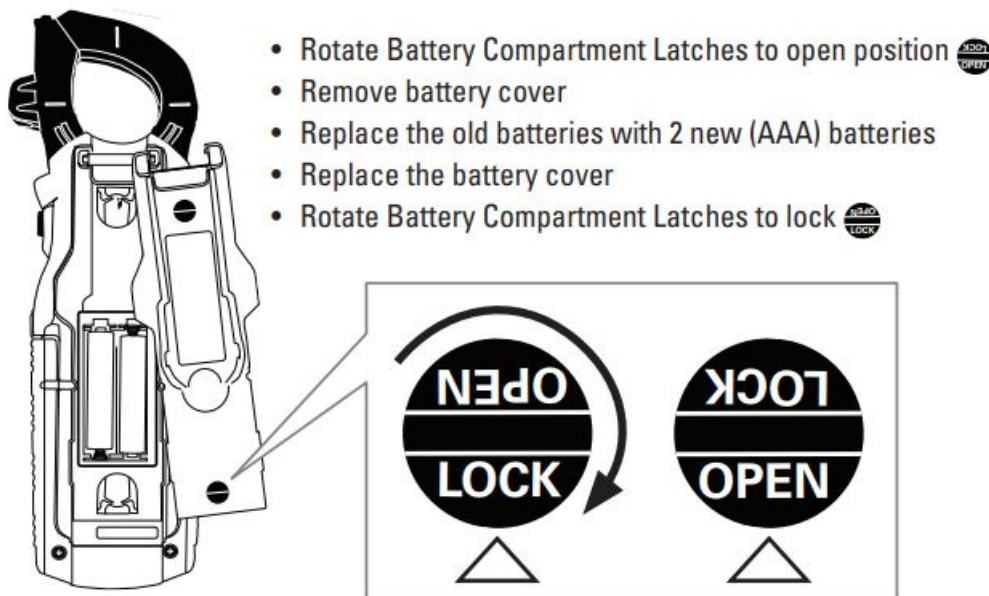


- CAT IV shields may be removed for CAT II locations. This will allow testing on recessed conductors such as standard wall outlets. Take care not to lose the shields.

WARNING: Test Lead category protections apply only to test leads and should not be confused with the meter's specific CAT rating. Observe the maximum category protection indicated on the meter the test leads are plugged into.

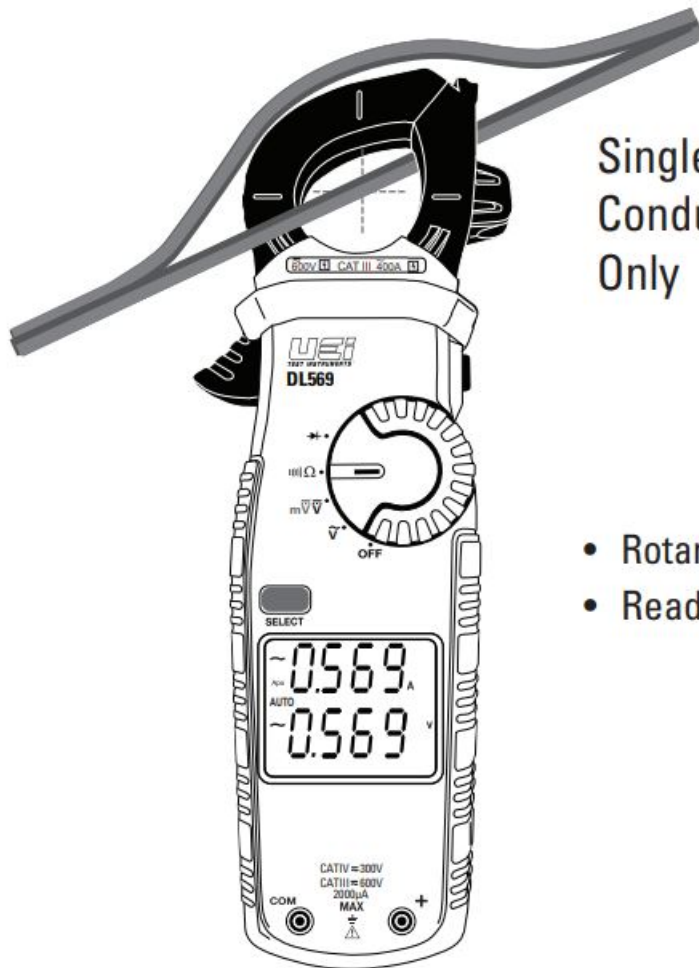
CAUTION: If the test leads need to be replaced, you must use a new one which should meet EN 61010-031 standard, rated CATIII 1000V or better.

Battery Replacement



- Rotate Battery Compartment Latches to open position LOCK
- Remove battery cover
- Replace the old batteries with 2 new (AAA) batteries
- Replace the battery cover
- Rotate Battery Compartment Latches to lock LOCK

AC Amps <400A Jaw



Single
Conductor
Only

- Rotary selector dial = any position
- Reading show on upper display

- AC Amps can be measured in any position of the rotary selector dial.
- Center wire in guides for best accuracy.
- Opposing currents cancel each other (use line-splitter when necessary).
- Keep hands below guard when measuring high current levels.
- Do not attempt to measure more than 400A AC.

Features:

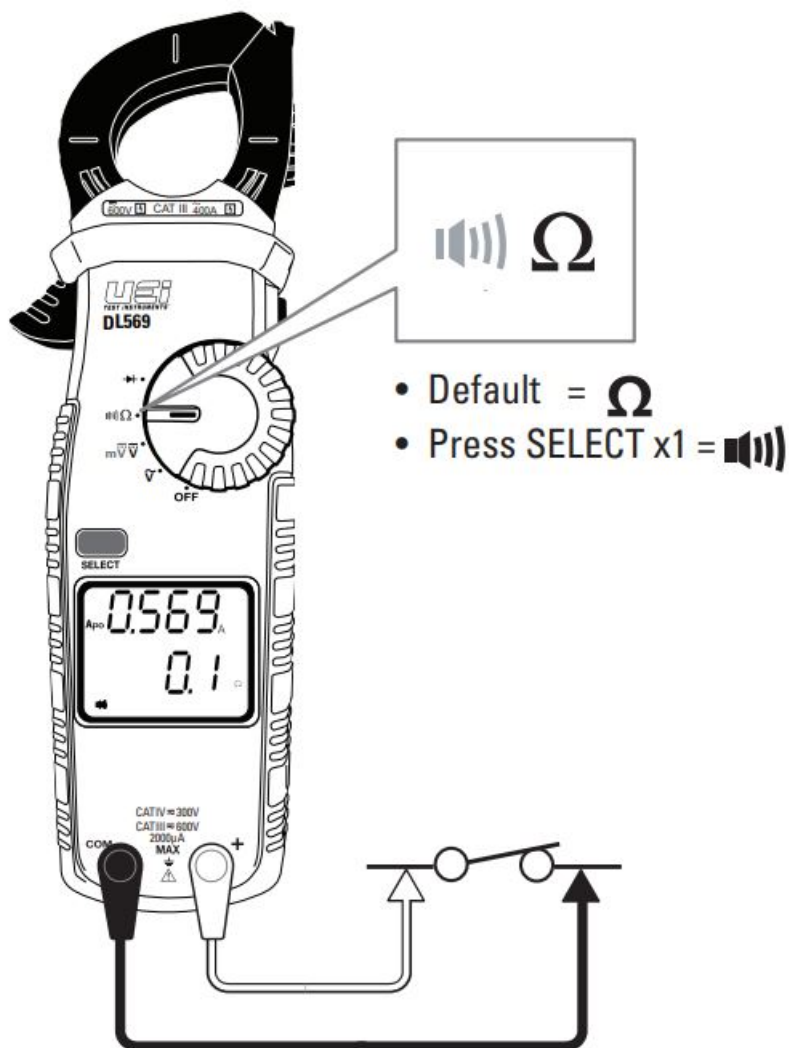


AC Amps Measurement – Jaw input

Range	Resolution	Accuracy	Overload Protection
60.00A	0.01A	$\pm 2.9\% + 15\text{dpts}$	600V RMS
600.0A	0.1A	$\pm 1.9\% + 8\text{dpts}$	

45Hz to 400Hz True RMS Minimum Current for Clamp Measurement: 0.3A

Continuity



- Buzzer sounds at less than $< 40\Omega$.

WARNING

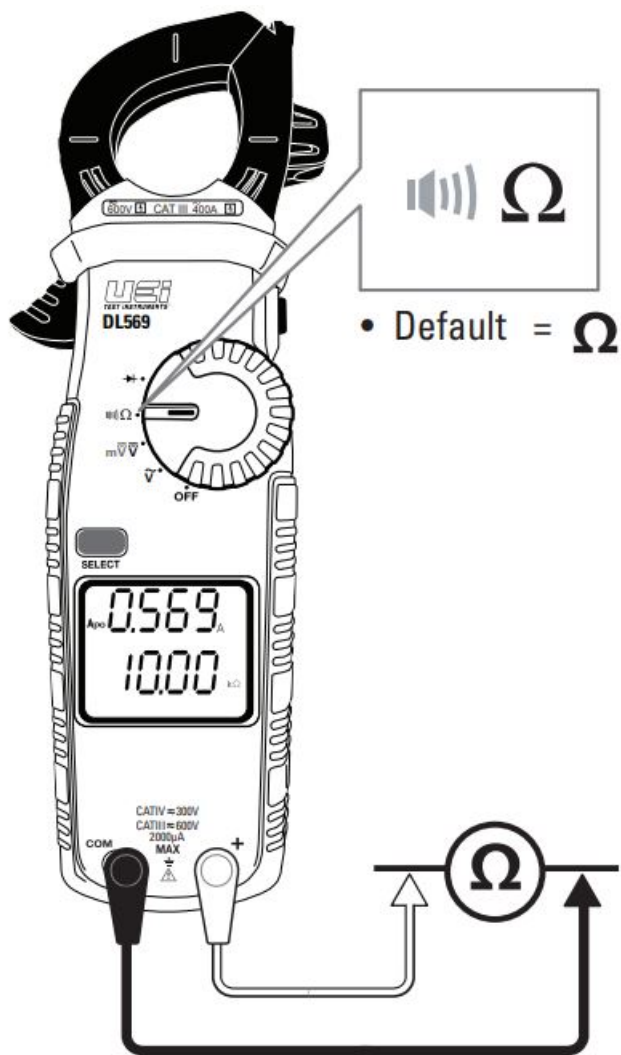
- Do not measure resistance on a live circuit.

Features:



Open circuit voltage $< 0.44V$	Overload Protection
Threshold Approx. $< 40\Omega$	600V RMS

Resistance: $< 40k\Omega$



Features:

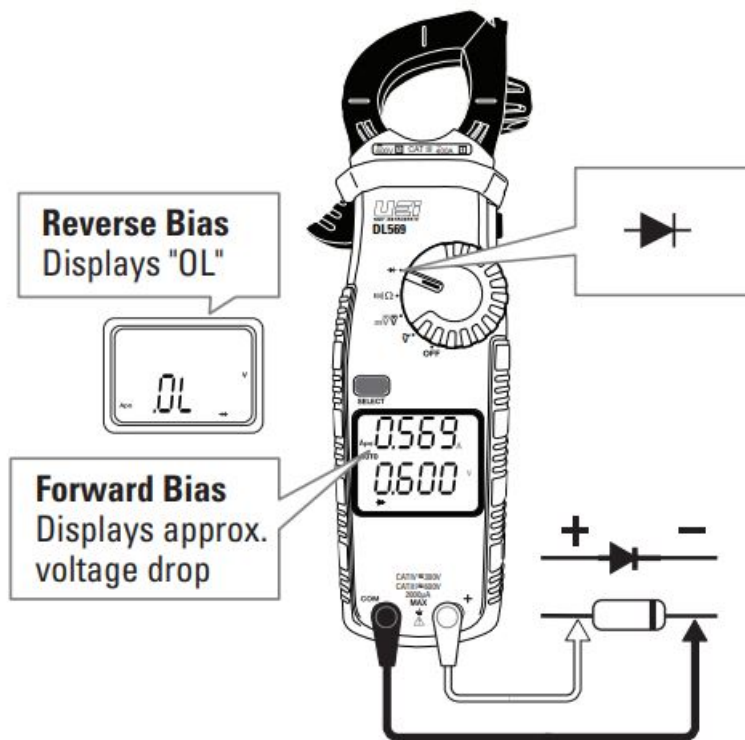


WARNING: Do not measure resistance on a live circuit.

Range	Resolution	Accuracy	Overload Protection
4.000kΩ	0.001kΩ	±1.0% + 4dgts	600V RMS
40.00kΩ	0.01kΩ		

Diode

GOOD DIODE



BAD DIODE



- Forward voltage drop if forward biased.
- “O.L.” if reverse biased.

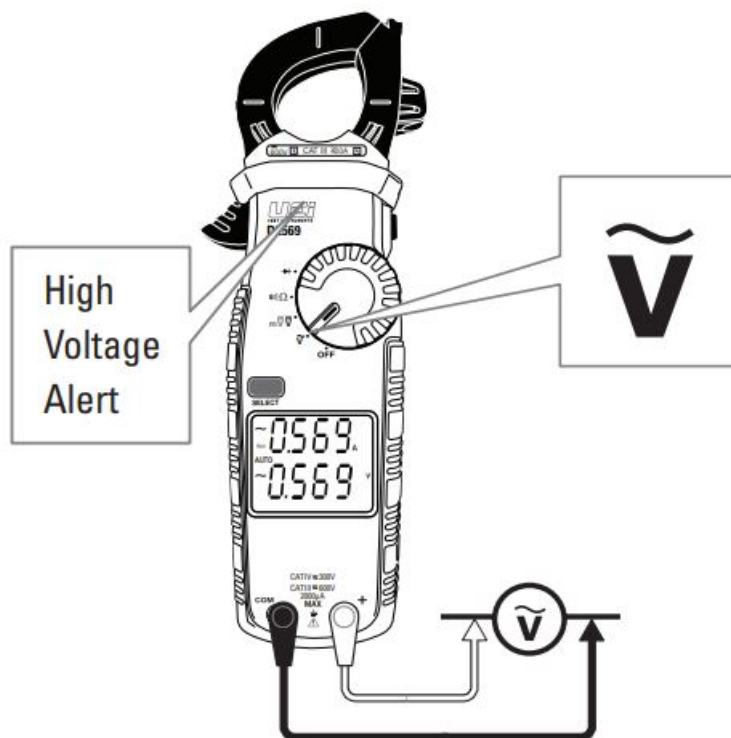
Features:



Diode Test

Range	Open Circuit Voltage	Test Current (Typical)	Overload Protection
4.0V	< 3.0V DC	0.25mA	600V RMS

Voltage: 750V AC



WARNING

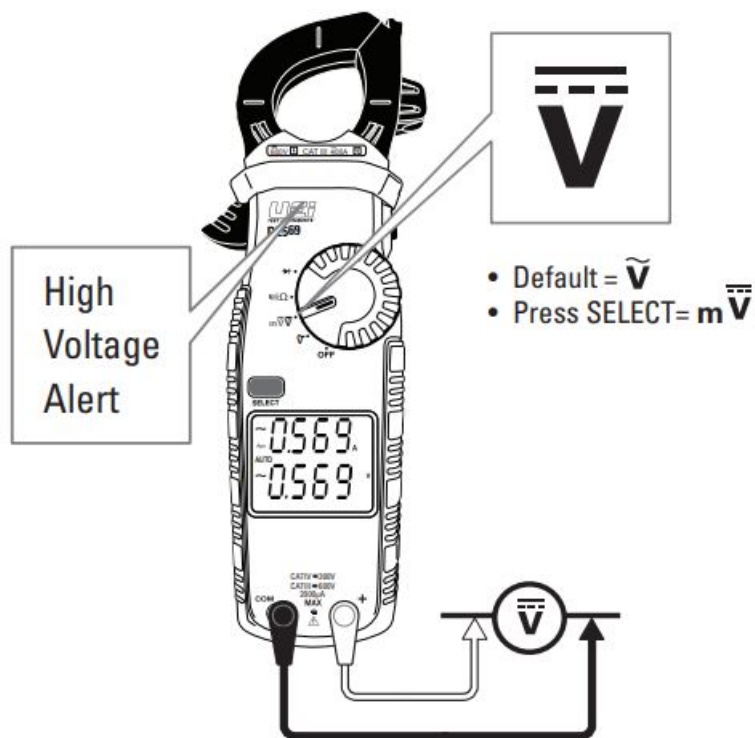
- Use CATIII rated test leads or higher.
- Do not attempt to measure more than 750V AC.
- Keep hands below line when measuring high current levels.
- High Voltage indicator will display and audible alert will sound over 600V AC
- High Voltage indicator will display (without audible alert) over 30V AC

Features:



Range	Resolution	Accuracy	Overload Protection
400.0V	0.1V	±2.0% + 5dgt	750V RMS
750V	1V		

Voltage: 1000V DC



WARNING

- Use CATIII rated test leads or higher.
- Do not attempt to measure more than 1000V DC.
- Keep hands below line when measuring high current levels.
- High Voltage indicator will display and audible alert will sound over 600V DC
- High Voltage indicator will display (without audible alert) over 30V DC

Features:



Range	Resolution	Accuracy	Overload Protection
400.0mV	0.1mV	$\pm 0.5\% + 5\text{dpts}$	1000V RMS
400.0V	0.1V	$\pm 0.5\% + 5\text{dpts}$	
1000V	1V	$\pm 0.8\% + 10\text{dpts}$	

Documents / Resources

	UEi TEST INSTRUMENT DL569 Dual Display Clamp Meter [pdf] Instruction Manual DL569 Dual Display Clamp Meter, DL569, Dual Display Clamp Meter
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References

-  [Kane USA](#)

Manuals+.