• Ensure meter leads are fully seated and keep fingers away from metal probe contact when making measurements. Always grip the leads behind the finger guards molded into the probe.
• Do not open the meter to replace batteries while the probes are connected.
• Use caution when working with voltages above 60V DC or 25V 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 lock out power before measuring resistance or capacitance.
• Always adhere to national and local safety codes. Use proper personal safety 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 leads 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: arching, 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 for trade professionals who are familiar with the hazards of their trade. Observe all recommended safety procedures that include proper lock-out utilization and the use of personal protective equipment that includes safety glasses, gloves and flame resistant clothing.

**Safety Notes**

- **3 1/2 digit, 4000 count LCD display**
- **Auto-ranging with manual ranging capability**
- **MIN/MAX (Peak Hold). All ranges except capacitance and frequency.**
- **Frequency, duty cycle, data hold**
- **Auto power off**
- **Dual display**
- **Built-in test lead storage**
- **Backlit display + Worklight (DL379B & DL389)**
- **Detachable current clamp head (DL379B & DL389)**
- **Built-in test lead storage**
- **Frequency, duty cycle, data hold**
- **Auto ranging with manual ranging capability**
- **Temperature (DL379B & DL389)**
- **Hi-NCV-Lo (available on DL379B and DL389)**
- **AC indicator**
- **DC indicator**
- **Indicates a negative value (DC negative voltage)**
- **MAX**
- **Minimum value displayed**
- **AC indicator**
- **DC indicator**
- **Indicates a negative value (DC negative voltage)**
- **MAX**
- **Minimum value displayed**
- **AC indicator**
- **DC indicator**
- **Indicates a negative value (DC negative voltage)**
- **MAX**
- **Minimum value displayed**
- **AC indicator**
- **DC indicator**
- **Indicates a negative value (DC negative voltage)**
- **MAX**
- **Minimum value displayed**

**Features**

- **Category Definitions**

**Warning** Refer to user guide regarding potential hazard and proper instructions. Before using this meter, read all safety information carefully. 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.

**Warning**

- 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.
- Keep your fingers away from the test lead’s metal probe contacts when making measurements.

**Warning**

- Do not store the meter in temperatures below 0°C (32°F) or above 50°C (122°F).
- Do not store the meter near places with high humidity or corrosive gas.
- Do not store the meter in a dusty environment.
- Do not expose the meter to direct sunlight.
- Do not dispose of the meter in fire.

**Warranty**

The DL369/DL379B/DL389 is warranted to be free from defects in materials and workmanship for a period of three years from the date of purchase. Within the warranty period your instrument should become inoperative from such defects, it will be either 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 cosmetic damage resulting from failing 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. 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.

For more information on warranty and service:

www.ueitest.com • Email: info@ueitest.com

1-800-547-5740 • FAX: (503) 643-6322

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.
**OPERATING INSTRUCTIONS**

**Auto Power Off**
After powering off, the meter will turn on again when you change ranges, rotate the selector dial or press a button.

**NOTE:** The APO is disabled during MIN/MAX mode.

**Backlight/Worklight (DL379B and DL389 only)**
Press and hold the HOLD button for 2 seconds to activate. Lights automatically turn off in 2 minutes to save battery life.

**NOTE:** After activating the lights, quick press to activate the hold mode.

**Automatic / Manual Range**
The meter defaults to auto range mode and AT is indicated on the display white active. Press the RANGE button to cycle through available ranges. Selecting a specific range will put the meter in manual range mode and AT will no longer be displayed on screen. Press and hold the RANGE button to return to auto ranging mode.

**MIN/MAX**
When using the MIN/MAX capture mode for amps, it is recommended that you first select the range of the expected maximum value. If this is not done it will lock in the lowest range for the initial measurement. If the maximum value exceeds this range the meter will capture O.L. as the maximum value.

**Data Hold**
Press the HOLD button to activate. This will freeze the reading and range in the display for review.

---

**Measuring AC Amps**
- Press SELECT to change between AC/DC
- Press RANGE to select range prior to using MAX/MIN

**NOTE:** Max capture is useful for motor inrush current.

---

**Measuring AC/DC Volts**
- Press SELECT to change between AC/DC
- Press SELECT to change between continuity and diode

**NOTE:** Continuity tone sounds at approximately <50.

**NOTE:** Shows voltage drop if forward biased and O.L. if reverse biased.

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**Measuring Temperature (DL379B and DL389 only)**
- Press SELECT to change between temperature and capacitance

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**Temperature Calibration**
- Connect temperature probe as directed above.
- Remove battery cover. Place temperature probe in a known standard temperature. Slightly crush ice in distilled water can be used for 32°F.
- Adjustments are made by accessing the potentiometer through the lower right access port in the battery compartment.
- Using a fine tip standard screwdriver, adjust the potentiometer to 32°F (0°C). The potentiometer should be set to 0.000.

---

**AC Volts (45Hz to 400Hz)**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Overload Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>400mV</td>
<td>0.1mV</td>
<td>±(0.5% + 4 dgts)</td>
<td>1000V RMS</td>
</tr>
<tr>
<td>4V</td>
<td>1mV</td>
<td>±0.5%</td>
<td>1000V RMS</td>
</tr>
<tr>
<td>40V</td>
<td>10mV</td>
<td>±(0.5% + 4 dgts)</td>
<td>1000V RMS</td>
</tr>
<tr>
<td>400V</td>
<td>100mV</td>
<td>±(0.5% + 4 dgts)</td>
<td>1000V RMS</td>
</tr>
<tr>
<td>1000V</td>
<td>1V</td>
<td>±(0.8% + 10 dgts)</td>
<td>1000V RMS</td>
</tr>
</tbody>
</table>

---

**AC Amps Measurement - Jaw Input (45–400Hz)**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Overload Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>40mA</td>
<td>0.01A</td>
<td>±(2.9% + 6 dgts)</td>
<td>±0.1A</td>
</tr>
<tr>
<td>400mA</td>
<td>0.1A</td>
<td>±(1.9% + 6 dgts)</td>
<td>±0.1A</td>
</tr>
</tbody>
</table>

**DC Low Amps Measurement (Test Lead Input)**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Overload Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>400µA</td>
<td>0.01µA</td>
<td>±(0.6% + 4 dgts)</td>
<td>±0.01µA</td>
</tr>
<tr>
<td>2000µA</td>
<td>0.1µA</td>
<td>±(0.6% + 4 dgts)</td>
<td>±0.1µA</td>
</tr>
</tbody>
</table>

**DC Low Amps Measurement (Test Lead Input 45Hz to 400Hz)**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Overload Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>400µA</td>
<td>0.01µA</td>
<td>±(0.6% + 4 dgts)</td>
<td>±0.01µA</td>
</tr>
<tr>
<td>2000µA</td>
<td>0.1µA</td>
<td>±(0.6% + 4 dgts)</td>
<td>±0.1µA</td>
</tr>
</tbody>
</table>

**Resistance**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Overload Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>4Ω</td>
<td>0.01Ω</td>
<td>±(2.0% + 5 dgts)</td>
<td>±0.01Ω</td>
</tr>
<tr>
<td>4kΩ</td>
<td>0.1Ω</td>
<td>±(2.0% + 5 dgts)</td>
<td>±0.1Ω</td>
</tr>
<tr>
<td>400kΩ</td>
<td>1Ω</td>
<td>±(2.0% + 5 dgts)</td>
<td>±1Ω</td>
</tr>
<tr>
<td>4MΩ</td>
<td>10Ω</td>
<td>±(2.0% + 5 dgts)</td>
<td>±10Ω</td>
</tr>
</tbody>
</table>

**Capacitance Measurement**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Overload Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000µF</td>
<td>200nF</td>
<td>±(0.5% + 4 dgts)</td>
<td>±0.2µF</td>
</tr>
<tr>
<td>400µF</td>
<td>40nF</td>
<td>±(0.5% + 4 dgts)</td>
<td>±0.2µF</td>
</tr>
<tr>
<td>4µF</td>
<td>4nF</td>
<td>±(0.5% + 4 dgts)</td>
<td>±0.2µF</td>
</tr>
<tr>
<td>40nF</td>
<td>40pF</td>
<td>±(0.5% + 4 dgts)</td>
<td>±0.2µF</td>
</tr>
</tbody>
</table>

**Diode Test**

<table>
<thead>
<tr>
<th>Range</th>
<th>Open Circuit V</th>
<th>Test Current</th>
<th>Overload</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0V</td>
<td>&lt;1.6V DC</td>
<td>0.25mA</td>
<td>600V RMS</td>
</tr>
</tbody>
</table>

**Frequency Measurement**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Overload Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>10Hz</td>
<td>0.1Hz</td>
<td>±(0.5% + 4 dgts)</td>
<td>±0.1Hz</td>
</tr>
<tr>
<td>30Hz</td>
<td>0.3Hz</td>
<td>±(0.5% + 4 dgts)</td>
<td>±0.3Hz</td>
</tr>
<tr>
<td>90Hz</td>
<td>0.9Hz</td>
<td>±(0.5% + 4 dgts)</td>
<td>±0.9Hz</td>
</tr>
</tbody>
</table>

**Duty (%) Cycle Measurement**

<table>
<thead>
<tr>
<th>Range</th>
<th>Accuracy</th>
<th>Overload Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 to 99.9%</td>
<td>±(0.2% per kHz +0.1%) + 5 counts</td>
<td>600V RMS</td>
</tr>
</tbody>
</table>

**Continuity Measurement**

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**PERIODIC SERVICE**
Repair service of this instrument is to be performed by qualified personnel only. Improper repair or service could result in physical degradation of the meter, altering the protection from electrical shock and personal injury this meter provides to the operator. Perform only the maintenance task you are qualified do.

**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.

**Battery Replacement**
Remove screws from battery compartment cover on back of meter and remove cover. Replace batteries with fresh batteries paying attention to polarity position. Replace cover and screws.

**SPECIFICATIONS**

<table>
<thead>
<tr>
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<td>40mV</td>
<td>0.1mV</td>
<td>±(0.5% + 4 dgts)</td>
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<tr>
<td>1000V</td>
<td>1V</td>
<td>±(0.8% + 10 dgts)</td>
<td>1000V RMS</td>
</tr>
</tbody>
</table>