

UEi Test Instruments DL579

UEi DL579-600A Dual Display TRMS-Clamp Meter User Manual

Model: DL579 | Brand: UEi Test Instruments

PRODUCT OVERVIEW

The UEi DL579 is a CAT III 600 V rated True RMS AC Clamp Meter designed for comprehensive electrical testing. It features a dual display for simultaneous readings and measures AC/DC voltage, AC current, resistance, capacitance, and temperature.

This versatile tool is ideal for checking system boards, live wires, and performing various electrical measurements in professional settings.

Key Features:

- CAT III 600 V rating for enhanced safety.
- Measures AC Volts up to 750 VAC.
- Measures DC Volts up to 1000 VDC.
- Measures AC current up to 600A.
- Measures Resistance up to 60M Ω .
- Includes temperature measurement via K-Type thermocouples.
- Capacitance measurement capability.
- Dual display for simultaneous readings.
- Inrush current function for motor startup analysis.

COMPONENTS AND CONTROLS



Figure 1: Front view of the UEi DL579-600A Dual Display TRMS-Clamp Meter, showing the main display, rotary dial, and clamp jaw.



Figure 2: The DL579-600A meter alongside its accessories, including test leads, K-Type thermocouple, carrying pouch, and batteries.

Detailed Component Breakdown:

1. **A. Clamp:** Used to measure inductive AC current. Opens to 1.25 inches (32.0mm).
2. **B. Conductor Alignment Marks:** Indicators for proper conductor placement within the clamp.
3. **C. Category Max Indicator:** Displays the maximum CAT Rating for the clamp jaw.
4. **D. NCV Alert Light:** Illuminates when Non-Contact Voltage (NCV) is detected.
5. **F. Clamp Lever:** Used to open and close the current clamp jaw.
6. **G. Rotary Selector Dial:** Used to select the desired measurement function (e.g., Volts, Amps, Ohms, Temp).
7. **H. Range Button:** Press to set the manual range for measurements.
8. **I. SELECT Button:** Used to toggle between functions within a single rotary dial position (e.g., AC/DC).
9. **J. Category Max Indicator:** Displays the maximum CAT Rating for the input jacks.
10. **K. Test Lead Input Jacks:** Multifunction and Positive input jacks for connecting test leads.
11. **L. Wire Separation Tab/NCV Sensor:** Used to isolate an individual wire from a bundle for testing. The NCV sensor

detects live voltage.

12. **M. Test Lead Holder:** Convenient storage for test leads.
13. **N. Hand Guide:** Provides a point of reference for operator safety during use.
14. **O. Hold/Backlight Button:** Press to hold the current reading on the display or activate the backlight.
15. **P. Min/Max Button:** Records minimum and maximum readings during a measurement session.
16. **Q. Display:** Dual LCD display showing measurement values.
17. **R. Inrush/Hz Duty Button:** Activates Inrush current measurement or switches to Frequency/Duty Cycle mode.
18. **S. K-Type Temperature Probe Inputs:** Jacks for connecting the K-Type thermocouple for temperature measurements.
19. **T. Input Jack Lock:** Secures the test leads in the input jacks.
20. **U. Built-in versatile magnet:** Can be used as a mount or with an optional strap.
21. **V. Battery Cover:** Protects the battery compartment.
22. **W. Battery Compartment Latches:** Secure the battery cover.



Figure 3: Close-up view of the dual display, showing simultaneous readings for different parameters.



Figure 4: Detail of the test lead input jacks and the K-Type temperature probe input, with a probe connected.



Figure 5: Rear view showing the built-in versatile magnet, allowing for hands-free operation or attachment to metal surfaces.



Figure 6: Close-up of the battery compartment, secured by latches, for easy battery replacement.

SETUP AND INITIAL USE

1. **Battery Installation:** Open the battery cover (V) by releasing the latches (W). Insert the required batteries, ensuring correct polarity. Close the cover securely.
2. **Power On:** Rotate the Rotary Selector Dial (G) from the "OFF" position to any desired measurement function (e.g., V~ for AC Volts, A~ for AC Current). The display (Q) will illuminate.
3. **Connecting Test Leads:** For voltage, resistance, capacitance, or diode measurements, insert the test leads into the appropriate Test Lead Input Jacks (K). Ensure the leads are fully inserted and secured by the Input Jack Lock (T).
4. **Connecting Temperature Probe:** For temperature measurements, connect the K-Type thermocouple to the K-Type

OPERATING INSTRUCTIONS

Measuring AC Current (Clamp Function):

1. Rotate the Rotary Selector Dial (G) to the "A~" position.
2. Press the Clamp Lever (F) to open the Clamp (A).
3. Place the single conductor wire to be measured within the clamp jaw, ensuring it aligns with the Conductor Alignment Marks (B).
4. Release the Clamp Lever (F) to close the jaw around the conductor.
5. Read the AC current value on the Display (Q).

Measuring Voltage (AC/DC):

1. Connect the test leads to the appropriate Test Lead Input Jacks (K).
2. Rotate the Rotary Selector Dial (G) to the "V~" (AC Volts) or "V-" (DC Volts) position. Use the SELECT button (I) to toggle if needed.
3. Touch the test probes to the circuit points where voltage is to be measured.
4. Read the voltage value on the Display (Q).

Measuring Temperature:

1. Connect the K-Type thermocouple to the K-Type Temperature Probe Inputs (S).
2. Rotate the Rotary Selector Dial (G) to the "Temp" position.
3. Place the thermocouple tip on or near the object whose temperature is to be measured.
4. Read the temperature value on the Display (Q).

Using Hold/Backlight and Min/Max Functions:

- **Hold:** Press the Hold/Backlight Button (O) briefly to freeze the current reading on the display. Press again to release.
- **Backlight:** Press and hold the Hold/Backlight Button (O) to activate the display backlight for low-light conditions. Press and hold again to turn off.
- **Min/Max:** Press the Min/Max Button (P) to enter Min/Max recording mode. The meter will continuously record the minimum and maximum values. Press again to cycle through Min, Max, and current readings. Hold to exit.

MAINTENANCE

- **Cleaning:** Wipe the meter with a dry, clean cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** When the low battery indicator appears on the display, replace the batteries promptly to ensure accurate readings. Refer to the "Setup and Initial Use" section for battery installation.
- **Storage:** Store the meter in its provided carrying pouch (Figure 2) in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Calibration:** For optimal accuracy, periodic calibration by a qualified service center is recommended.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity and replace batteries if necessary.
Inaccurate readings.	Low battery, incorrect function selected, or environmental interference.	Replace batteries, ensure correct function is selected on the rotary dial, move away from strong electromagnetic fields.
Display shows "OL" (Overload).	Input value exceeds the selected range or meter's maximum capacity.	Select a higher range using the Range Button (H) or ensure the measurement is within the meter's specifications.
Meter beeps excessively.	Normal operation for certain functions (e.g., continuity check) or a known characteristic for dial rotation.	This is a characteristic of the meter. There is no user interface to disable the beep function.

SPECIFICATIONS

Parameter	Value
Model Number	DL579
Brand	UEi Test Instruments
Safety Rating	CAT III 600 V
AC Volts	750 VAC
DC Volts	1000 VDC
AC Current (Amps)	600A
Resistance (Ohms)	60MΩ
Capacitance	Yes (Value not specified in input, but capability is)
Temperature Measurement	Yes, via K-Type thermocouples (Upper Temperature Rating: 125 Degrees Celsius)
Display Type	Dual Display
Power Source	Battery Powered
Item Weight	16 ounces (1 pound)
Product Dimensions (L x W x H)	1 x 1 x 1 inches
UPC	053533509274

WARRANTY AND SUPPORT

The UEi DL579-600A Dual Display TRMS-Clamp Meter comes with a **one-year warranty** from the date of purchase. For warranty claims, technical support, or service inquiries, please refer to the contact information provided in the included warranty documentation or visit the official UEi Test Instruments website.

For additional support and resources, you may visit the[UEi Test Instruments Store on Amazon](#).

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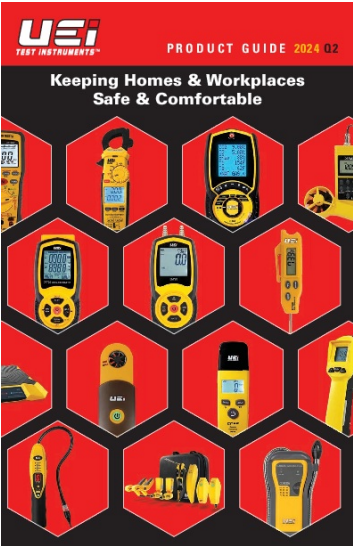
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