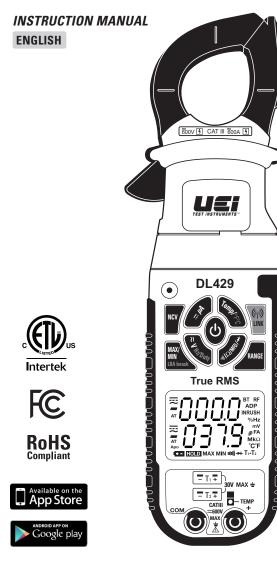
DL429 instruments

True RMS Digital Clamp-On Wireless with Dual Temperature



1-800-547-5740 • Fax: (503) 643-6322 www.ueitest.com • email: info@ueitest.com

WARRANTY

The DL429 is warranted to be free from defects in materials and workmanship for a period of two years from the date of purchase.

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.

FCC INFORMATION

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

FEATURES

- True RMS
- Direct function access with push-button operation
- Dual Display
- Dual Temperature with Differential
- Locked Rotor Inrush Measurement
- Non-contact voltage
- Min / Max / Hold
- Backlit display with Clamp Work-light
- Magnetic mount for hands free use
- RF or Bluetooth® Wireless: BT app available for Android and iOS
- Accepts CH3: The Hook, or Fieldpiece accessory heads
- Input Jack Safety Lockout
- Auto-ranging measurement with manual ranging capability
- Auto Power Off: After 30 minutes of non-use.
- Low battery lockout: Displays "BATT" in display blocking potentially inaccurate readings.
- Visible High-Voltage alert

MEASURES

- Amps AC to 600A
- μΑ DC 0.1μΑ~2000μΑ
- Volts DC 0.1mV ~ 1,000V
- Volts AC 0.1mV ~ 750V
- Resistance 0.1Ω ~ 60MΩ
- Capacitance 0.01nF ~ 2,000µF
- Temperature -22° ~ 752°F (-30° ~ 400°C) with Differential
- Frequency 0.01Hz ~ 99.99kHz
- Duty Cycle

GENERAL SPECIFICATIONS

- Altitude: Operating up to 2000m (6,561 ft.)
- Storage 10,000m (32,808 ft.)
- Humidity: 80% max
- Operating Temperature: 32°F to 122°F (0°C to 50°C) at < 75% R.H
- Storage Temperature: -4°F to 140°F (-20°C to 60°C) at < 80% R.H
- Relative humidity: 0% to 80% at 32°F to 95°F (0°C to 35°C),
 - 0% to 70% at 32°F to 131°F (0°C to 55°C)
- Temperature Coefficient: Nominal 0.1 x (Specified accuracy) / °C (<18°C or >28°C ; <64°F or >82°F)
- Pollution degree: 2
- Display: 3-5/6 digits 6000 counts dual LCD display(s)
- Refresh Rate: 3 times/sec
- Overrange: "OL" is displayed
- Polarity: Automatic(no indication for positive polarity) ; Minus(-) sign for negative polarity
- Dimensions: 10.2" x 2.5" x 1.5"
- Weight: 15.2oz.
- · Calibration: Accurate for one year
- CAT Rating: CAT III 600V
- Certifications: ETL & cETL IEC61010-2-032
- Battery type: 6 x 1.5V AAA or LR03
- Silicon Test Lead: IEC61010-2-031
- Accuracy: ± (% of reading + # of least significant digits)

A WARNINGS

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 the meter during electrical storms, or in wet weather.
- Do not use the meter or test leads if they appear to be damaged.
- Ensure meter leads are fully seated, and keep fingers away from the metal probe contacts when making measurements.
- 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 a shock hazard.

INTERNATIONAL SYMBOLS

Â

A

4

NAVIGATION

DL429

· Press briefly to turn the meter on

· Press and hold to turn the meter off

to disable auto power off.

· The new user interface allows direct access from any mode

· Press and hold to access functions in yellow text.

• From wireless app press ' Mode.... ' first

· Wireless app and meter display update simultaneously

· Press and hold "HOLD" while turning on

• Modes and functions can be selected from either the app or the meter.

- mega (x 10⁶ or 1,000,000) Μ k
- m milli (x 10⁻³ or 0.001)

AC Alternating Current

DC/AC Voltage or Current

DC Direct Current

Ground

- micro (x 10⁻⁶ or 0.000001) μ
- Kilo prefix (x 10³ or 1,000)
- nano (x 10^{.9} or 0.000000001) n

Warning or Caution

Dangerous levels

Safe for disconnect

from live conductors

Double Insulated Class II

့ဂ္ဂ်: HOLD

Press to select DC µA measurement mode

- --- μA
 - · Press to select T1. Press a second time for T2.
 - · Press a third time for T1 T2.
 - Press and hold to change from °F to °C.
- · Press to select continuity.

'emp/

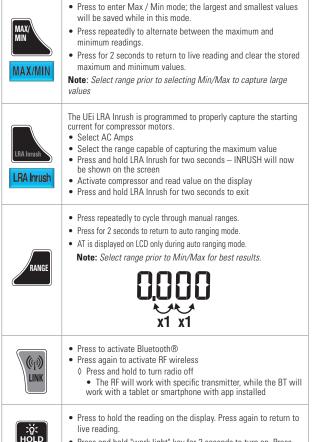
|/Ω/MFD/→

- Press a second time for resistance. · Press a third time for capacitance and a fourth time for diode

· Press to select VAC or VDC

- In VAC mode
- Press and hold for Hz • Press and hold again for Duty Cycle. ≂VHz/Dut
 - Non-Contact Voltage Detection key is used to detect power with a sensor located at the tip of the clamp head and indicates positive response with an audible alarm and visual LED indicator light just above the "NCV" button.
 - Do not use non-contact voltage detector to determine if there is current in the wire. Detection operation could be affected by socket design, insulation thickness, type and other factors.
 - Voltage indicator light may also light when voltage is present on the meter's input jack or from external interference sources such as motors, flashlights etc.

• From wireless app press ' Func... ' first



CAUTION (A): Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

BATTERY REPLACEMENT

- When the indicator is displayed on the LCD, batteries must be replaced.
- Remove the back screw and replace 6 x AAA batteries.

CIFANING

Turn instrument off and disconnect test leads. Clean the instrument by using a damp cloth. Do not use abrasive cleaners or solvents.

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 Specifications section, allow the instrument to return to normal operating conditions before using it.

DISPOSAL / RECYCLE



Caution (: This symbol indicates that equipment and its accessories shall be subject to a separate collection and correct disposal

- 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 local and national safety codes. Use Personal Protective Equipment (PPE) to prevent shock and arc blast injury.

SYMBOLS USED ON LCD

| AC Measurement | | DC Measurement |
|-------------------------------------|--|--|
| Negative DC | AT | Auto Ranging |
| Overload: Range Exceeded | Аро | Auto Power-Off Active |
| Low Battery | HOLD | Display not updating |
| Minimum measured value displayed | MAX | Maximum measured value displayed |
| Units for duty cycle | Hz | Units for frequency |
| Voltage measurement mode | Α | Amperage measurement mode |
| Resistance measurement mode | -▶+ | Diode test mode |
| | Negative DC Overload: Range Exceeded Low Battery Minimum measured value displayed Units for duty cycle Voltage measurement mode Resistance measurement | Negative DC AT Overload: Range Exceeded Apo Low Battery HOLD Minimum measured value displayed MAX Units for duty cycle Hz Voltage measurement mode A |

- MFD Canacitance measurement mode in nano farads or microfarads
- · Press and hold "work light" key for 2 seconds to turn on. Press and hold again to turn off.

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When the meter is powered on, the upper display will always show amperage, or adapter (ADP) output

• Center wire in guides for best accuracy.

• Opposing currents cancel (use line-splitter when necessary).

A Keep hands below line when measuring high current levels.

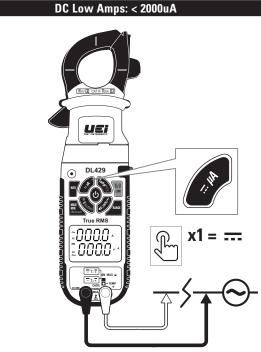


| AC Amps Measurement | Jaw | input |
|---------------------|-----|-------|
|---------------------|-----|-------|

| Range | Resolution | Accuracy | Overload Protection |
|-------|------------|----------------------|----------------------------|
| 60A | 0.01A | ± (2.9% + 15 digits) | 600V RMS |
| 600A | 0.1A | ± (1.9% + 8 digits) | DUUV KIVIS |

True RMS: 45Hz to 400Hz



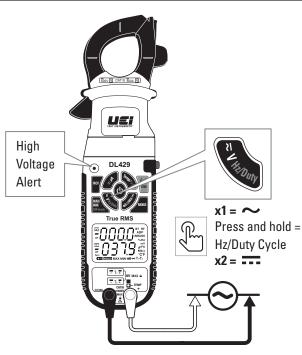


• Press for DC micro amps

| Features: NCV (INK MAX RANGE CONTRACT | |
|--|--|
| DC Low Amps Measurement -Test lead input | |

| Range | Resolution | Accuracy | Overload Protection |
|--------|------------|---------------------|----------------------------|
| 600µA | 0.1µA | ± (1.2% + 3 digits) | 2000 |
| 2000µA | 1μA | | 2000µA / 600V RMS |

≂V Hz/Duty





DC Voltage Measurement

| Range | Resolution | Accuracy | Overload Protection |
|-------|------------|----------------------|----------------------------|
| 600mV | 0.1mV | ± (0.5% + 4 digits) | |
| 6V | 1mV | | 1000V |
| 60V | 10mV | | |
| 600V | 100mV | | |
| 1000V | 1V | ± (0.8% + 10 digits) | |

AC Voltage Measurement

| Range | Resolution | Accuracy | Overload Protection |
|-------|------------|---------------------|----------------------------|
| 600mV | 0.1mV | | |
| 6V | 1mV | | |
| 60V | 10mV | ± (2.0% + 5 digits) | 750V RMS |
| 600V | 100mV | | |
| 750V | 1V | | |

True RMS: 45Hz to 400Hz

Frequency Measurement

| Range | Resolution | Accuracy | Overload Protection |
|-----------------------|------------|---------------------|---------------------|
| naliye | nesolution | Accuracy | Overioau Protection |
| 99.99Hz | 0.01Hz | ± (0.1% + 4 digits) | |
| 999.9Hz | 0.1Hz | | 600V RMS |
| 9.999kHz | 1Hz | | |
| 99.99kHz | 10Hz | | |
| Sensitivity: 1.8V RMS | | | |

Duty Cycle Measurement

| Range | Accuracy | Overload Protection |
|-----------|-----------------------------------|---------------------|
| 1.0~99.0% | ±(0.2% per kHz + 0.1% + 5 digits) | 600V RMS |

•))/ Ω / MFD / 🗕 USi Θ $\mathbf{x1} = \mathbf{y}$ $x^2 = \Omega$ R x3 = MFDDL Audible Continuity x4 = → Press for continuity • Display shows resistance. • Buzzer sounds if less than 40Ω.

| Overload Protection | Open Circuit Voltage |
|---------------------------------|----------------------|
| 600V RMS | < 0.44V |
| Threshold Approx : < 40Ω | |
| - • · | |

<u>Resistance</u>

Features:

• Press again for resistance A Do not measure resistance on a live circuit.



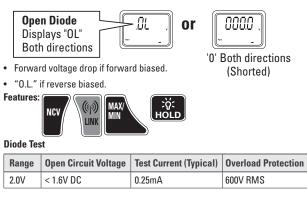
| Range | Resolution | Accuracy | Overload Protection |
|-------|------------|---------------------|----------------------------|
| 600Ω | 0.1Ω | | |
| 6kΩ | 1Ω | | |
| 60kΩ | 10Ω | ± (1.0% + 4 digits) | 600V RMS |
| 600kΩ | 100Ω | | DUUV RIVIS |
| 6MΩ | 1kΩ | | |
| 60MΩ | 10kΩ | ± (2.0% + 4 digits) | |

<u>Capacitance</u>

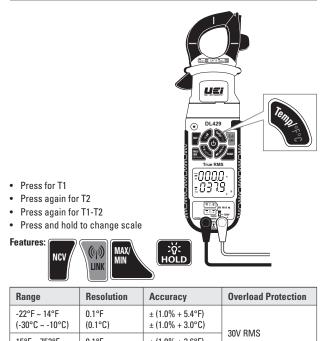


| Range | Resolution | Accuracy | Overload Protection | | |
|---------|------------|----------------------|----------------------------|--|--|
| 60.00nF | 0.01nF | | | | |
| 600.0nF | 0.1nF | | | | |
| 6.000µF | 0.001µF | . (2 E0/ . 6 digita) | 600V RMS | | |
| 60.00µF | 0.01µF | ± (3.5% + 6 digits) | 0000 11013 | | |
| 600.0µF | 0.1µF | | | | |
| 2000µF | 1µF | | | | |

BAD DIODE



TEMP/ °F °C°



| -22°F ~ 14°F | 0.1°F | ± (1.0% + 5.4°F) | 30V RMS |
|-----------------|---------|------------------|-----------|
| (-30°C ~ -10°C) | (0.1°C) | ± (1.0% + 3.0°C) | |
| 15°F ~ 752°F | 0.1°F | ± (1.0% + 3.6°F) | 307 11013 |
| (-9°C ~ 400°C) | (0.1°C) | ± (1.0% + 2.0°C) | |

Sensor: K-Type Thermocouple, sensor accuracy not included

Connecting and Using the App

- Search for App as, "UEi Wireless"
- Compatible with iPhone® 4X and up running iOS® 7 or higher, Galaxy S4®, Nexus 5[™], HTC One[®] running Android[™] 4.4 or higher.
- To install or search on iPad[®] use "iPhone[®] only" to find App.
- Press "Link" button on meter to activate wireless "BT" ٠ ٠
- Open app. Meter will connect automatically.

<u>Menu</u>

| • Press " Menu " | to connect, di | sconnect, an | d |
|--|---|--|--|
| access settings. | Connect | Settings | Info |
| Settings • General settings ac and refresh rate. | ljust button so | ound, vibrate | Home Settings |
| Recording settings Continuous reading Number of samples Sampling interval | | | GENERAL Button Click Sound Button Click Vibration Refresh Rate (100 ms) RECORDING |
| • Press Record to s | | | Continuous Recording Incont will be and represented and Max. Samples (100) Max. number of americs to record in a log the Sampling Interval (0 min, 1 sec.) Horn balances the scalad adjusted samples Murula: |
| • The number of sam | | | |
| Notes of the state | Напол UT 2218 РМ Ноте Log Life 14 Амен Астадиствания До15-01-23(12:00:00) Асклона До15-01-23(12:00:00) Амен Алия До15-01-22(11:03:05) Амен Алия До15-01-22(11:03:05) Амен Алия До15-01-22(10:55:46) Амен Алия До15-01-22(10:55:51) Амен Алия До15-01-22(10:55:51) Амен Алия | Edit • F > • F > • F > • F > • F > • F > • F > • F > • F > • F | Press Logs to view recorded data. Press the entry you wish to view (yyyy-mm-dd nh:mm:ss) Functions are noted underneath respectively AMP-AMP (TOP- BOTTOM) Display |
| Menu Record Func Graph | | | |

• Press " 📝 " button for summary

• Press " 📜 " button for sample data

Use CAT III rated leads or higher. Â Do not attempt to measure more than 1000V DC or 750V AC.

• Press for AC Volts

Note: This is the default setting when first powered on. ◊ Press and hold in AC volts for Hz/Duty Cycle

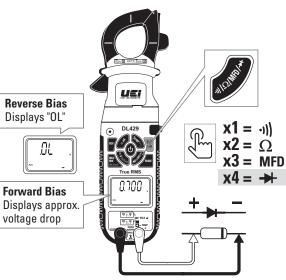
• Press again for DC volts

• High Volt Visible Alert - Any input exceeding 30V (AC or DC) will light the NVC LED to alert users to potentially dangerous voltage levels

<u>Diode</u>

• Press again for diode test

GOOD DIODE



• Press " []" button to export data via email in (.CSV .PNG or .JPG) formats

x 78%

118.4 \

118.2 V

118.1 V

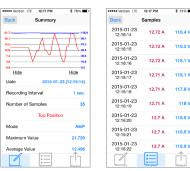
118.1 \

117.9 V

118

118.5 \

<u>í</u>



| ••••• Verizon LTE | 11:28 AM | \$ 96% 🛲 · |
|-----------------------------------|-------------------|------------|
| Back | Export | Mail |
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| Graph in PNG for | | |
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<u>Graph</u> • Press " Graph " to view trending data in real time during measurement.

