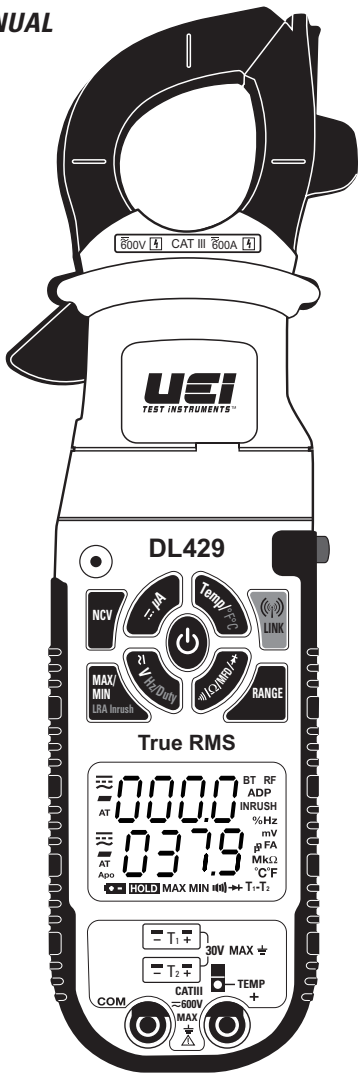


True RMS Digital Clamp-On Wireless with Dual Temperature

INSTRUCTION MANUAL

ENGLISH



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
- μ A DC 0.1 μ A~2000 μ A
- Volts DC 0.1mV ~ 1,000V
- Volts AC 0.1mV ~ 750V
- Resistance 0.1 Ω ~ 60M Ω
- Capacitance 0.01nF ~ 2,000 μ F
- 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:** \pm (% of reading + # of least significant digits)

⚠ 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.
- 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	Auto Ranging
Overload: Range Exceeded	Auto Power-Off Active
Low Battery	Display not updating
Minimum measured value displayed	Maximum measured value displayed
Units for duty cycle	Units for frequency

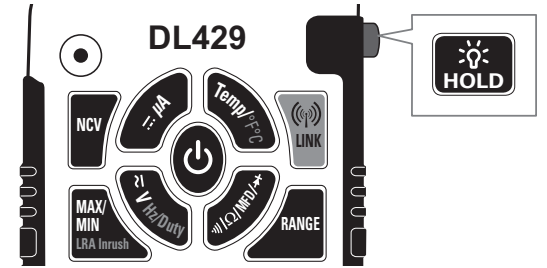
VALUE MULTIPLIER

M mega (x 10 ⁶ or 1,000,000)	k Kilo prefix (x 10 ³ or 1,000)
m milli (x 10 ⁻³ or 0.001)	n nano (x 10 ⁻⁹ or 0.000000001)
μ micro (x 10 ⁻⁶ or 0.000001)	

INTERNATIONAL SYMBOLS

AC Alternating Current	Warning or Caution
DC Direct Current	Dangerous levels
DC/AC Voltage or Current	Double Insulated Class II
Ground	Safe for disconnect from live conductors

NAVIGATION



	<ul style="list-style-type: none"> • Press briefly to turn the meter on • Press and hold "HOLD" while turning on to disable auto power off. • Press and hold to turn the meter off 	
	<ul style="list-style-type: none"> • The new user interface allows direct access from any mode. • Press and hold to access functions in yellow text. • Wireless app and meter display update simultaneously. • Modes and functions can be selected from either the app or the meter. 	
	<ul style="list-style-type: none"> • From wireless app press 'Mode...' first 	
	<ul style="list-style-type: none"> • Press to select DC μA measurement mode. 	
	<ul style="list-style-type: none"> • 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. 	
	<ul style="list-style-type: none"> • Press to select continuity. • Press a second time for resistance. • Press a third time for capacitance and a fourth time for diode. 	
	<ul style="list-style-type: none"> • Press to select VAC or VDC In VAC mode • Press and hold for Hz • Press and hold again for Duty Cycle. 	
	<ul style="list-style-type: none"> • 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. 	
	<ul style="list-style-type: none"> • From wireless app press 'Func...' first 	
	<ul style="list-style-type: none"> • Press to enter Max / Min mode; the largest and smallest values will be saved while in this mode. • Press repeatedly to alternate between the maximum and minimum readings. • Press for 2 seconds to return to live reading and clear the stored maximum and minimum values. <p>Note: Select range prior to selecting Min/Max to capture large values</p>	
	<ul style="list-style-type: none"> • The UEI LRA Inrush is programmed to properly capture the starting current for compressor motors. • Select AC Amps • Select the range capable of capturing the maximum value • Press and hold LRA Inrush for two seconds – INRUSH will now be shown on the screen • Activate compressor and read value on the display • Press and hold LRA Inrush for two seconds to exit 	
	<ul style="list-style-type: none"> • Press repeatedly to cycle through manual ranges. • Press for 2 seconds to return to auto ranging mode. • AT is displayed on LCD only during auto ranging mode. <p>Note: Select range prior to Min/Max for best results.</p>	
	<ul style="list-style-type: none"> • Press to activate Bluetooth® • Press again to activate RF wireless 	
	<ul style="list-style-type: none"> • Press to hold the reading on the display. Press again to return to live reading. • Press and hold "work light" key for 2 seconds to turn on. Press and hold again to turn off. 	

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.

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

CLEANING

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

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

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mode Blue test mode

MFD Capacitance measurement mode in nano farads or microfarads

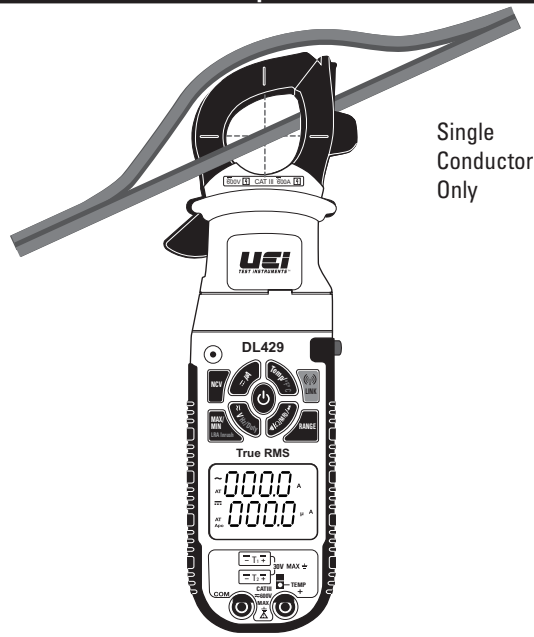
sales@GlobalTestSupply.com



• Press to hold the reading on the display. Press again to return to live reading.

• Press and hold "work light" key for 2 seconds to turn on. Press and hold again to turn off.

AC Amps: < 600A



Single Conductor Only

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).
- ▲ Keep hands below line when measuring high current levels.



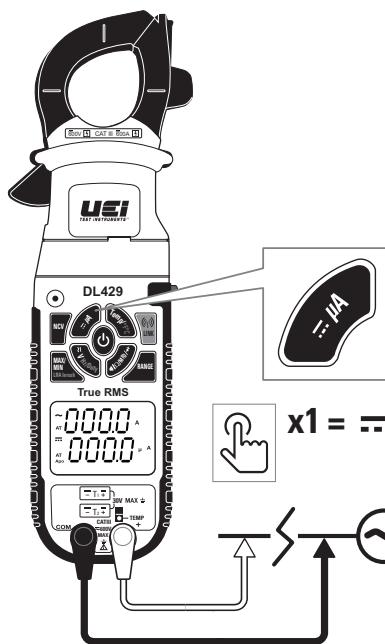
AC Amps Measurement - Jaw input

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

True RMS: 45Hz to 400Hz

* Minimum Current for Clamp Measurement: 0.2A

DC Low Amps: < 2000uA



x1 = \approx

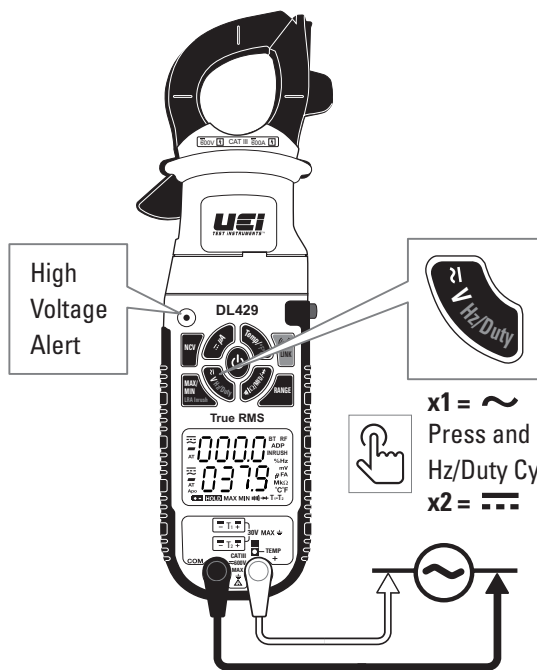
- Press for DC micro amps



DC Low Amps Measurement - Test lead input

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

\approx V Hz/Duty



High Voltage Alert

x1 = \approx
Press and hold = Hz/Duty Cycle
x2 = \approx

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- ◆ 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



DC Voltage Measurement

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

AC Voltage Measurement

Range	Resolution	Accuracy	Overload Protection
600mV	0.1mV	± (2.0% + 5 digits)	750V RMS
6V	1mV		
60V	10mV		
600V	100mV	± (0.8% + 10 digits)	
750V	1V		

True RMS: 45Hz to 400Hz

Frequency Measurement

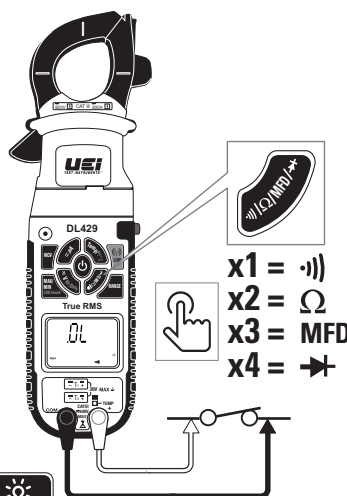
Range	Resolution	Accuracy	Overload Protection
99.99Hz	0.01Hz	± (0.1% + 4 digits)	600V RMS
999.9Hz	0.1Hz		
9.999kHz	1Hz		
99.99kHz	10Hz		

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

\approx / Ω / MFD / \rightarrow



x1 = \approx
x2 = Ω
x3 = MFD
x4 = \rightarrow

Audible Continuity

- Press for continuity
- Display shows resistance.
- Buzzer sounds if less than 40 Ω .



Overload Protection	Open Circuit Voltage
600V RMS	< 0.44V

Threshold Approx : < 40 Ω

Resistance

- Press again for resistance
- ▲ Do not measure resistance on a live circuit.



Range	Resolution	Accuracy	Overload Protection
600 Ω	0.1 Ω	± (1.0% + 4 digits)	600V RMS
6k Ω	1 Ω		
60k Ω	10 Ω		
600k Ω	100 Ω	± (2.0% + 4 digits)	
6M Ω	1k Ω		
60M Ω	10k Ω		

Capacitance

- Press again for capacitance

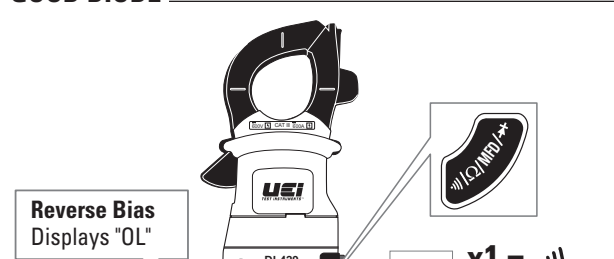


Range	Resolution	Accuracy	Overload Protection
60.00nF	0.01nF	± (3.5% + 6 digits)	600V RMS
600.0nF	0.1nF		
6.000uF	0.001uF		
60.00uF	0.01uF	± (3.5% + 6 digits)	
600.0uF	0.1uF		
2000uF	1uF		

Diode

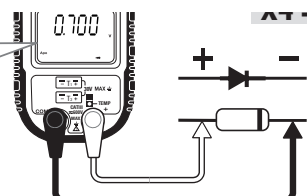
- Press again for diode test

GOOD DIODE



Reverse Bias Displays "OL"

Forward Bias Displays approx. voltage drop



BAD DIODE

Open Diode Displays "OL" Both directions



or



'0' Both directions (Shorted)

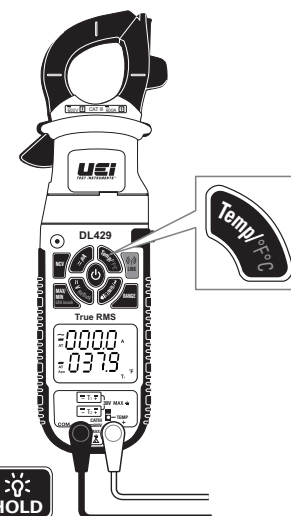
- Forward voltage drop if forward biased.
- "O.L." if reverse biased.



Diode Test

Range	Open Circuit Voltage	Test Current (Typical)	Overload Protection
2.0V	< 1.6V DC	0.25mA	600V RMS

TEMP/ °F °C



- Press for T1
- Press again for T2
- Press again for T1-T2
- Press and hold to change scale



Range	Resolution	Accuracy	Overload Protection
-22°F ~ 14°F (-30°C ~ -10°C)	0.1°F (0.1°C)	± (1.0% + 5.4°F) ± (1.0% + 3.0°C)	30V RMS
15°F ~ 752°F (-9°C ~ 400°C)	0.1°F (0.1°C)	± (1.0% + 3.6°F) ± (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"
- Open app. Meter will connect automatically.

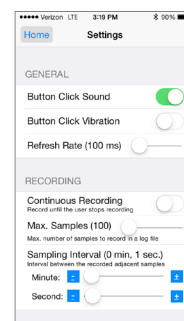
Menu

- Press "Menu" to connect, disconnect, and access settings.

Connect Settings Info

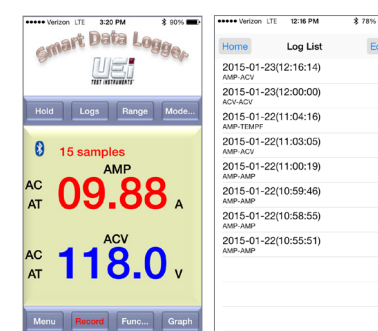
Settings

- General settings adjust button sound, vibrate and refresh rate.
- Recording settings
- Continuous reading
- Number of samples
- Sampling interval



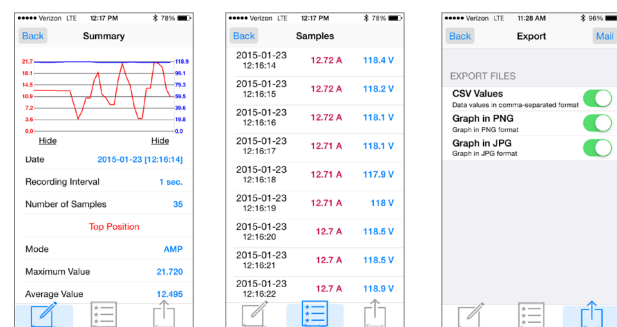
Record

- Press Record to start, stop.
- The number of samples will show in real time



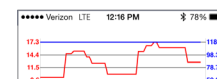
- Press Logs to view recorded data.
- Press the entry you wish to view (yyyy-mm-dd hh:mm:ss)
- Functions are noted underneath respectively AMP-AMP (TOP-BOTTOM) Display

- Press "Summary" button for summary
- Press "Samples" button for sample data
- Press "Export" button to export data via email in (.CSV .PNG or .JPG) formats



Graph

- Press "Graph" to view trending data



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