



**CALRIGHT
INSTRUMENTS**

The Right Source For Your Test & Measurement Needs

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GENERATION TWO
PHOENIX
CLAMP METER SERIES



G2 PHOENIX PRIME : DL369



Functions

- 750V AC/1000V DC
- 400A AC
- 2000µA AC/DC
- 40MΩ Resistance/Continuity
- 4000µF Capacitance
- Non-Contact Voltage 24~600V AC
- Frequency/Duty Cycle
- Diode
- Data Hold
- MIN/MAX

Features

- Dual Display
- Low Battery Display Lock
- Test Lead Storage
- Test Lead Holder on Clamp Head
- Auto Off
- Three Year Limited Warranty

Safety Compliance

- CATIII 600V, CATII 1000V

Accessories included

- Test Leads
- Zippered Case
- 2AAA batteries

G2 PHOENIX PRO : DL379



Functions

- All the DL369 Functions PLUS...
- -40 ~ 752°F Temperature (K type)

Features

- All the DL369 Features PLUS...
- Input Jack Lock
- Detachable Clamp Head
- Worklight
- Magnetic Mount
- User Temperature Calibration
- EasyView High Contrast Backlight Display
- Compatible with common Industry Accessories Heads
- Three Year Limited Warranty

Safety Compliance

- CATIII 600V, CATII 1000V

Accessories included

- Test Leads
- K type probe (no adapter required)
- Zippered Case
- 2AAA batteries

G2 PHOENIX PRO+ : DL389



Functions

- All the DL369 Functions PLUS...
- TRUE-RMS(AC Volts & AC Amps)
- -40 ~ 752°F Temperature (K type)

Features

- All the DL369 Features PLUS...
- Input Jack Lock
- Detachable Clamp Head
- Worklight
- Magnetic Mount
- User Temperature Calibration
- EasyView High Contrast Backlight Display
- Compatible with common Industry Accessories Heads
- Three Year Limited Warranty

Safety Compliance

- CATIII 600V, CATII 1000V

Accessories included

- Test Leads
- K type probe (no adapter required)
- Zippered Case
- 2AAA batteries



G2 PHOENIX HOOK Extended Clamp Head: CH3

Functions

- Measures 100A AC
- Non-Contact Voltage in tip
- Worklight
- Patented Virtual Closed Core Accuracy
- Works exclusively with the PRO and PRO+ *
- Three year limited warranty

Specifications

- Range: 0 – 100A
- Resolution: 0.1A
- Accuracy: 2.0% ±20 dgts
- Interference from adjacent wires: 0.03 – 1.0A

*Hook does not measure True-rms when used with the PRO+ (DL389)



INCREASED SAFETY



INPUT JACK LOCK:
Prevents temperature probe and test leads from being simultaneously connected to the meter. This is a great safety device protecting users against a potentially harmful yet common error



LOW BATTERY INDICATOR:
This warning prevents use when the battery is too low to provide accurate readings.



NCV ALARM:
The newly enhanced audible alarm gives contractors an accurate indication of live voltages. The easily distinguishable tones are synchronized with a red LED warning light.



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ENHANCED FUNCTIONALITY

CAPACITANCE:

Select the capacitance function easily by turning the selector dial. The G2 Phoenix indicates this function with the microfarad symbol "µF" and abbreviation "MFD".



NCV SENSOR:

The voltage sensor is relocated to the clamp head's wire sorting tip and features improved sensitivity, providing added convenience and increased detection reliability.



TEMPERATURE CALIBRATION:

Allows users to recalibrate temperature in the field eliminating down time and saving money.*



MANUAL RANGING:

The User can select manual ranging on either the upper or lower display screen. Select the proper range for the function to speed up testing, and to capture maximum values more accurately



* Features are exclusive to the G2 PHOENIX PRO (DL379) and PRO+ (DL389).

COMFORTABLE INTERFACE



EASYVIEW DISPLAY:
We've added the EasyView high contrast backlit display to aid viewing in direct sunlight and dark work environments. The duration of the backlight has been increased allowing more time to connect to the test points and view results in the dark.*



DUAL DISPLAY:
The dual backlit display allows simultaneous measurements of current and voltage.

USER INTERFACE:
The popular thumb wheel navigation has been added providing users a firm ergonomic grip that allows for comfortable one-handed operation.



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UNPARALLELED INNOVATION

DETACHABLE CLAMP HEAD:
Remove the clamp head to attach the HOOK Extended Clamp Head providing measurement capabilities into hard to reach areas. The G2 Phoenix also accepts common industry attachment heads.*



THE HOOK:
The HOOK offers a safe way to check amperage in tight spaces or wire bundles. Upgraded with a Non-Contact Voltage sensor in the tip and a Worklight, this patented technology increases accuracy by significantly reducing current interference from adjacent wires by providing a virtual closed core measurement in the HOOK.*



WORKLIGHT:
Dark work spaces are now illuminated adding both safety and convenience to the jobsite. Once activated the Worklight will stay illuminated for two minutes.*



MAGNETIC MOUNT:
The strong magnet built into the Phoenix housing offers users hands-free operation.*



TEST LEAD STORAGE:
Test leads snap into the back of the meter's housing covering the sharp probes and keeping the leads readily available.

* Features are exclusive to the G2 PHOENIX PRO (DL379) and PRO+ (DL389).

G2 PHOENIX: SPECIFICATIONS

AC Amps Measurement - Jaw Input (45Hz to 400Hz)

Range	Resolution	Accuracy	Overload Protection
40A	0.01A	±2.9% +15 dgts	600V
400A	0.1A	±1.9% +8 dgts	

*DL369 400A range only

*DL389 45Hz to 400Hz True RMS (Crest factor <3:1)

DC Low Amps Measurement (test lead input)

Range	Resolution	Accuracy	Overload Protection
400µA	0.01µA	±1.2% +3 dgts	2000µA / 600V
2000µA	0.1µA		

AC Low Amps Measurement (test lead input)

Range	Resolution	Accuracy	Overload Protection
400µA	0.01µA	±2.0% +5 dgts	2000µA / 600V
2000µA	0.1µA	±1.5% +5 dgts	

*DL389 45Hz to 400Hz True RMS (Crest factor <3:1)

DC Volts Measurement

Range	Resolution	Accuracy	Overload Protection
400mV	0.1mV	±0.5% +4 dgts	600V
4V	1mV		
40V	10mV		
400V	100mV		
1000V	1V	±0.8% +10 dgts	

AC Volts Measurement (45Hz to 400Hz)

Range	Resolution	Accuracy	Overload Protection
4V	1mV	±2.0% +5 dgts	600V
40V	10mV		
400V	100mV		
750V	1V		

*DL389 45Hz to 400Hz True RMS (Crest factor <3:1)

Ohms Measurement

Range	Resolution	Accuracy	Overload Protection
40Ω	100mΩ	±1.0% +4 dgts	600V
4kΩ	1Ω		
40kΩ	10Ω		
400kΩ	100Ω		
4MΩ	1kΩ		
40MΩ	10kΩ	±2.0% +4 dgts	

Diode Test

Range	Open Circuit Voltage	Test Current (typical)	Overload Protection
2.0V	< 3.0V DC	0.25mA	600V

Capacitance Measurement

Range	Resolution	Accuracy	Overload Protection
40nF	0.01nF	±3.5% +6 dgts	600V
400nF	0.1nF		
4µF	0.001µF		
40µF	0.01µF		
400µF	0.1µF		
4000µF	1µF		

Temperature Measurement (DL279 & DL289 only)

Range	Resolution	Accuracy	Overload Protection
-22° to 14°F (-30° to -10°C)	0.1°F (0.1°C)	±5.4°F (±3.0°C)	30V
15° to 752°F (-9° to 400°C)	0.1°F (0.1°C)	±1.0% +3.6°F (±1.0% +2.0°C)	

Frequency Measurement

Range	Resolution	Accuracy	Overload Protection
9.999Hz	0.001Hz	±0.1% +4 dgts	600V
99.99Hz	0.01Hz		
999.9Hz	0.1Hz		
9.999kHz	1Hz		
99.99kHz	10Hz		

Minimum frequency: 0.5Hz, DC V offset should be zero
Sensitivity: > 1.0V rms

Duty (%) Cycle Measurement

Range	Accuracy	Overload Protection
01. to 99.9%	±(0.2% per kHz +0.1%) +5 count	600V

0.5Hz to 100kHz (pulswidth >2µsec)

Continuity Measurement

Open Circuit voltage <2.7V	Overload Protection
Threshold Approximately 120	600V



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G2 PHOENIX: SELECTION GUIDE

**CHOOSE A METER
THAT DOES EVERYTHING YOU DO!**



If You Measure...	PRIME DL369	PRO DL379	PRO+ DL389	G2	PHOENIX Features
Non-linear loads or distorted waveforms:				X	TRUE RMS
Fahrenheit or Celsius:		X	X		Temperature
Use HOOK clamp head & attachment heads:		X	X		Detachable Clamp Head
Illuminate dark work environments:		X	X		Worklight
Hands free:		X	X		Magnetic Mount
In either dark or bright sunlit work spaces:		X	X		EasyView Backlit Display
Motor run or start faults:	X	X	X		Capacitance
Flame safe guard:	X	X	X		AC/DC Microamp
Quick check of live wires:	X	X	X		Non-Contact Voltage
Motor in-rush:	X	X	X		MIN/MAX and Data Hold
Two readings simultaneously:	X	X	X		Dual Display
Control voltage or System board voltage checks:	X	X	X		AC/DC Volts
Motor or line current:	X	X	X		AC Current:
Circuit continuity or specified resistance:	X	X	X		Resistance
Variable speed drives & supply power:	X	X	X		Frequency
With increased measurement speed & accuracy:	X	X	X		Auto/Manual Ranging
Variable speed drives & supply power:	X	X	X		Duty Cycle
Diode malfunctions/Unbroken paths:	X	X	X		Diode/Continuity Test
Convenient storage:	X	X	X		Test Lead Storage
Hands free of test leads:	X	X	X		Test Lead Holder
Safety compliance:	X	X	X		CAT III 600V, CAT II 1000V
Peace of mind:	X	X	X		3-Year Limited Warranty



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