



Generation Two Phoenix True RMS Clamp-On Meter



Functions

- True RMS
- Capacitance 4000 μ F
- AC/DC Current 2000 μ A
- AC Current (Clamp) 400A
- Non-contact voltage 24 to 600V AC
- Volts 750V AC/1000V DC
- Resistance 40M Ω
- Frequency/ Duty cycle
- Continuity
- Diode test
- Min/Max
- Temperature range: (K-Type)
-22° to 752°F

Features

- Dual display
- Detachable clamp head
- Input jack lock
- Worklight
- Low battery display lock
- High contrast backlit display
- Magnetic mount
- User temperature calibration
- Test lead storage
- Test lead holder on clamp head
- Auto power off
- Compatible with common industry accessory heads
- 3-Year limited warranty



Applications

Average-responding units like the PHOENIX: PRIME and PRO, are widely used and work well for linear electrical loads. However, when the loads are nonlinear, like those of an adjustable-frequency drive, or semiconductors, they require the accuracy of a True RMS meter like the PHOENIX: PRO+ to correctly measure the distorted sign-waves. In these situations a True RMS meter will provide a correct reading on the distorted wave-form where an average-responding meter may result in error readings up to 40%.





Includes

- Test leads (ATL59)
- K-Type temperature probe (ATT29)
- Batteries 2 (AAA)
- Manual
- Zippered pouch

Specifications

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

Range	Resolution	Accuracy	Overload Protection
40A	0.01A	$\pm(2.9\% + 15 \text{ dgts})$	400A
400A	0.1A	$\pm(1.9\% + 8 \text{ dgts})$	

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

DC Low Amps Measurement (test lead input)

Range	Resolution	Accuracy	Overload Protection
400 μ A	0.01 μ A	$\pm(1.2\% + 3 \text{ dgts})$	2000 μ A / 600V RMS
2000 μ A	0.1 μ A		

AC Low Amps Measurement (test lead input)

Range	Resolution	Accuracy	Overload Protection
400 μ A	0.01 μ A	$\pm(2.0\% + 5 \text{ dgts})$	2000 μ A / 600V RMS
2000 μ A	0.1 μ A	$\pm(1.5\% + 5 \text{ dgts})$	

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

DC Volts Measurement

Range	Resolution	Accuracy	Overload Protection
400mV	0.1mV	$\pm(0.5\% + 4 \text{ dgts})$	1000V RMS
4V	1mV		
40V	10mV		
400V	100mV		
1000V	1V	$\pm(0.8\% + 10 \text{ dgts})$	

AC Volts Measurement

Range	Resolution	Accuracy	Overload Protection
400mV	0.1mV	$\pm(2.0\% + 5 \text{ dgts})$	750V RMS
4V	1mV		
40V	10mV		
400V	100mV		
750V	1V		

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

Resistance Measurement

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

Capacitance Measurement

Range	Resolution	Accuracy	Overload Protection
40nF	0.01nF	$\pm(3.5\% + 6 \text{ dgts})$	600V RMS
400nF	0.1nF		
4 μ F	0.001 μ F		
40 μ F	0.01 μ F		
400 μ F	0.1 μ F		
4000 μ F	1 μ F		

Temperature Measurement

Range	Resolution	Accuracy	Overload Protection
-22° to 14°F (-30° to -10°C)	0.1°F (0.1°C)	$\pm(1.0\% + 5.4^\circ\text{F})$ $\pm(1.0\% + 3.0^\circ\text{C})$	30V RMS
15° to 752°F (-9° to 400°C)	0.1°F (0.1°C)	$\pm(1.0\% + 3.6^\circ\text{F})$ $\pm(1.0\% + 2.0^\circ\text{C})$	

Frequency Measurement

Range	Resolution	Accuracy	Overload Protection
9.999Hz	0.001Hz	$\pm(0.1\% + 4 \text{ dgts})$	600V RMS
99.99Hz	0.01Hz		
999.9Hz	0.1Hz		
9.999kHz	1Hz		
99.99kHz	10Hz		
199.9kHz	100Hz		

Minimum Frequency: 0.5Hz, DC V offset should be zero

Sensitivity: >10% of each AC Volt range except 4V (>20%) range only

Duty (%) Cycle Measurement

Range	Accuracy	Overload Protection
01. to 99.90%	$\pm(0.2\% \text{ per kHz} + 0.1\%) + 5$	600V RMS

0.5Hz to 100kHz (pulswidth > 2 μ sec)

Continuity Measurement

Open Circuit voltage <0.44V	Overload Protection
Threshold Approximately <50 Ω	600V

Diode Test

Range	Open Circuit Voltage	Test Current (typical)	Overload Protection
2.0V	< 2.4V DC	0.25mA	600V

Downloads



Manual



Data Sheet

H26-494



Made in KOREA

USA

