

# 4320 Multi-Function Electrical Safety Tester

The 4320 performs AC Hipot, DC Hipot, Insulation Resistance and Ground Bond tests in a single instrument. Equipped with the latest technology and features, the 4320 is the right solution for a variety of electrical safety testing applications. With its low cost, it is a perfect solution for any budget.



## Features:

- ◆ Test Setup Memories with Steps
- ◆ Tamper Proof Front Panel Controls
- ◆ Simple Menu Control
- ◆ Enhanced PLC Remote Control
- ◆ Continuous Duty Cycle Ratings
- ◆ Milliohm Offset Capability
- ◆ Fully Adjustable Ramp and Dwell
- ◆ Low Current Sense



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**Slaughter**  
Instruments for Electrical  
Test & Measurement

**Cal Power**

# Slaughter Model 4320

INPUT	
Voltage	115/230 VAC ± 10%, user selection
Frequency	50/60 Hz ± 5%
Fuse	6.3 Amp 250V Slo-Blow
DIELECTRIC WITHSTAND TEST MODE	
Output Rating	5 KV @ 20 mA AC 6 KV @ 5 mA DC
Voltage Setting	Range: 0.00 - 5.00 KV AC 0.00 - 6.00 KV DC Resolution: 0.01 KV Accuracy: ± (2% of setting + 5 volts)
Voltage Display	Range: 0.00 - 5.00 KV AC 0.00 - 6.00 KV DC Resolution: 0.01 KV Accuracy: ± (2% of reading + 10 volts)
Current Display	Range: 0.00 - 20.00 mA AC 0.00 - 5.00 mA DC Resolution: 0.01 mA Accuracy: ± (2% of reading + 0.02 mA)
HI-Limit	AC Range: 0.00 - 20.00 mA
LO-Limit	Resolution: 0.01 mA Accuracy: ± (2% of setting + 0.02 mA)
	DC Range: 0.00 - 5.00 mA Resolution: 0.01 mA Accuracy: ± (2% of setting + 0.02 mA)
Failure Detector	Audible and Visual
DC Output Ripple	< 5% at 6 KV DC @ 5 mA, resistive load
Discharge Time	≤ 200 ms
Max. Capacitive Load in DC Mode	1.00uF < 1KV 0.08uF < 4KV 0.75uF < 2KV 0.04uF < 5KV 0.50uF < 3KV 0.01uF < 6KV
AC Wave Form	Sine Wave, Crest Factor = 1.3 - 1.5
AC Output Frequency	Range: 60 or 50 Hz, user selection
Output Regulation	± (1 % of setting + 5 volts) from no load to full load
Dwell Timer	Range: 0, 0.2 - 999.9 sec, (0 = continuous) Resolution: 0.1 sec increments Accuracy: ± (0.1% + 0.05 sec)
Ramp Timer	Range: 0.1 - 999.9 sec, Resolution: 0.1 sec increments Accuracy: ± (0.1% + 0.05 sec)



## INSULATION RESISTANCE TEST MODE

Output Voltage	Range: 100 - 1000 Volts DC Resolution: 1 volt Accuracy: ± (2% of reading + 5 volts)
Voltage Display	Range: 0-1000 V Resolution: 1 volt Accuracy: ± (2% of reading + 2 counts)
Resistance Display	Range: 1-1000 MΩ (4 digit, auto ranging) Resolution: 500VDC 1000VDC MΩ MΩ MΩ 0.01 1.00-40.00 1.00-80.00 0.1 35.0-999.9 75.0-999.9
HI-Limit	Range: 0, 1-1000 MΩ (0 = off)
LO-Limit	Range: 1-1000 MΩ
Delay Timer	Range: 0, 0.5 - 999.9 sec (0 = constant) Resolution: 0.1 sec Accuracy: ± (0.1% + 0.05 sec)

## GROUND BOND TEST MODE

Output Voltage	Range: 6 V AC fixed
Output Frequency	Range: 60 or 50 Hz, user selectable
Output Current	Range: 3.0-30.0 Amps AC Resolution: 0.1 Amp Accuracy: ± (2 % of setting + 0.02 A)
Current Display	Range: 0.0-30.0 Amps Resolution: 0.1 Amp Accuracy: ± (3 % of reading + 0.1 A)
HI-Limit	Range: 0 - 510 mΩ for 3.0 - 10.0 Amps
LO-Limit	0 - 200 mΩ for 10.1 - 25.0 Amps 0 - 150 mΩ for 25.1 - 30.0 Amps Resolution: 1 mΩ Accuracy: ± (2 % of setting + 2 mΩ)
Dwell Timer	Range: 0, 0.5 - 999.9 sec (0 = constant) Resolution: 0.1 sec Accuracy: ± (0.1% + 0.05 sec)
Milliohm Offset	Max. Offset Capability: 100 mΩ Resolution: 1 mΩ Accuracy: ± (2 % of setting + 2 mΩ)

## GENERAL SPECIFICATIONS

PLC Remote Control	Inputs - test, reset, interlock & recall memory 1-6 Outputs - pass, fail, test-in-process
Memory	Allows storage of up to 6 different test programs and 6 steps per memory and a single step mode
Security	Lockout capability to avoid unauthorized access to test set-up programs
Calibration	Software & adjustments made through front panel
Mechanical	Bench or rack mount with tilt up front feet
Dimension	(W x H x D) 11" x 3.5" x 17" (280 x 89 x 430 mm)
Weight	33 lbs. (15 kg)

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