

# 6330 Multi-Function Electrical Safety Tester

Perform six electrical safety tests in a single instrument with the 6330. This 6-in-1 electrical safety tester performs AC Hipot, DC Hipot, Insulation Resistance, Ground Bond, Functional Run, and Line Leakage tests. Equipped with the latest technology and features at a cost-effective price, the 6330 is a perfect solution for applications requiring multiple safety tests.



## Features:

- ◆ Six Tests in a Single Instrument
- ◆ 10 Memories with 20 Steps Per Memory
- ◆ Tamper Proof Front Panel Controls
- ◆ Simple Menu Control
- ◆ Enhanced PLC Remote Control
- ◆ Fully Adjustable Ramp and Dwell
- ◆ Single Step Test Mode

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**Slaughter**  
Instruments for Electrical  
Test & Measurement  
**Cal Power**

# Slaughter Model 6330

INPUT	
Voltage	115 / 230V selectable, $\pm 10\%$ variation
Frequency	50 / 60 Hz $\pm 5\%$
Fuse	6.3 A slow blow 250V AC
DIELECTRIC WITHSTAND TEST MODE	
Output Rating	3.5 kV @ 30 mA AC 3.5 kV @ 5 mA DC
Voltage Setting	Range: 0.00 - 3.50 kV AC 0.00 - 3.50 kV DC Resolution: 0.01 kV Accuracy: $\pm (2\% \text{ of setting} + 5 \text{ volts})$
Current Display	Range: 0.00 - 30.00 mA AC 0.00 - 5.00 mA DC Accuracy: $\pm (2\% \text{ of reading} + 2 \text{ counts})$
HI-Limit	AC Range: 0.00 - 30.00 mA
LO-Limit	AC Accuracy: $\pm (2\% \text{ of setting} + 2 \text{ counts})$ DC Range: 0.00 - 5.00 mA DC Accuracy: $\pm (2\% \text{ of setting} + 2 \text{ counts})$
Failure Detector	Audible and Visual
Arc Detection	Range: 1 - 9 (optional)
DC Output Ripple	5% Ripple RMS at 3.5 kV DC @ 5 mA
Discharge Time	No capacitive load $\leq 30\text{ms}$ , capacitive load $\leq 100\text{ms}$
Max. Capacitive Load in DC Mode	1.00 $\mu\text{F}$ < 1kV    0.50 $\mu\text{F}$ < 3kV 0.75 $\mu\text{F}$ < 2kV    0.08 $\mu\text{F}$ < 3.5kV
AC Wave Form	Sine Wave, Crest Factor = 1.3 - 1.5
AC Output Frequency	Range: 60 or 50 Hz, user selection
Output Regulation	$\pm (1\% \text{ of setting} + 5 \text{ volts})$ from no load to full load
Dwell Timer	Range: 0, 0.2 - 999.9 sec, (0 = continuous)
Ramp Timer	Range: 0.1 - 999.9 sec
INSULATION RESISTANCE TEST MODE	
Output Voltage	Range: 100 - 1000 V DC Accuracy: $\pm (2\% \text{ of reading} + 5 \text{ volts})$
Resistance Display	Range: 1 - 1000 M $\Omega$ (4 digit, auto ranging) Resolution: 500 V DC    1000 V DC M $\Omega$ M $\Omega$ M $\Omega$ 0.01    1.00 - 40.00    1.00 - 80.00 0.1    35.0 - 999.9    75.0 - 999.9
HI-Limit / LO-limit	Range: 1-1000 M $\Omega$ (0 = off)
Delay Timer	Range: 0, 0.5 - 999.9 sec (0 = constant)
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 A AC
Current Display	Range: 0.0 - 30.0 A
HI-Limit	Range: 0 - 510 m $\Omega$ for 3.0 - 10.0 Amps
LO-Limit	0 - 200 m $\Omega$ for 10.1 - 25.0 Amps 0 - 150 m $\Omega$ for 25.1 - 30.0 Amps Accuracy: $\pm (2\% \text{ of setting} + 2 \text{ counts})$
Dwell Timer	Range: 0, 0.5 - 999.9 sec (0 = constant)
Milliohm Offset	Range: 0 - 100 m $\Omega$ Accuracy: $\pm (2\% \text{ of setting} + 2 \text{ m}\Omega)$

RUN TEST MODE		
DUT Power	Voltage:	0 - 277 VAC Single Phase Unbalanced 0 - 30 A maximum
	Current:	30A AC max continuous
Voltage Display	Range:	0.0 - 277.0 VAC Full Scale
Short Circuit Protection		Short circuit current 50 A < 3 s, Inrush current 180 A Response time 10 $\mu\text{s}$
Delay Time Setting	Range:	0.2 - 999.9 seconds
Dwell Time Setting	Range:	0.1 - 999.9 seconds (0 = continuous)
Timer display	Range:	0.0 - 999.9 seconds
TRIP POINTS:		
Voltage	Range:	0.0 - 277.0 VAC
Current	Range:	0.0 - 30.0 AAC
Watts	Range:	0 - 8400 W
Power Factor	Range:	0.000 - 1.000
Leakage Current	Range:	0.00 - 10.00 mA (0 = off) Leakage current measuring resistor MD=2K $\Omega$ $\pm 1\%$
LINE LEAKAGE TEST MODE		
DUT Power	Voltage:	0 - 277 VAC Single Phase Unbalanced 0 - 30 A maximum
	Current:	30A AC max continuous
Voltage Display	Range:	0.0 - 277.0 VAC Full Scale
Short Circuit Protection		Short Circuit current 50 A < 3 s, Inrush current 180 A Response time 10 $\mu\text{s}$
Leakage Current (RMS Only)	Range:	0.0 $\mu\text{A}$ - 6000 $\mu\text{A}$ Accuracy (DC): 15 to 100 kHz $\pm (2\% \text{ of reading} + 3 \mu\text{A})$ >100k to 1 MHz $\pm 5\%$ of reading
Measuring Device		A UL544 Non Patient B IEC60990 Fig4-U2 C UL2601-1, UL60601-1 F Frequency Check, External MD (1k $\Omega$ ) X External MD (1k $\Omega$ )
Line Condition		Neutral, Reverse, Ground
Probe		G - L
HI-Limit / LO-limit	Range:	0 - 6000 $\mu\text{A}$
Delay Timer	Range:	0, 1.0 - 999.9 sec (0 = continuous)
GENERAL SPECIFICATIONS		
PLC Remote Control		Inputs: test, reset, interlock & recall memory 1 - 6 Outputs: pass, fail, test-in-process
Memory		10 memories with 20 steps per memory
Security		Key lock and memory lock capability to avoid unauthorized access
Terminations		6 ft (1.8 m) high voltage and (2) return leads with clips.
Calibration		Software & adjustments made through front panel
Mechanical		Bench or rack mount with tilt up front feet
Environmental		Operating Temperature: 32° - 104° F (0° - 40° C) Relative Humidity: 0 - 80%
Dimension		(W x H X D) 16.9" x 5.2" x 19.6" (430 x 133 x 500 mm)
Weight		48.5 lbs. (22 kg)



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