

model no.

6330

6-IN-1 ELECTRICAL SAFETY TESTER

Model 6330 is a 6-in-1 Electrical Safety Tester designed to perform multiple tests using a single instrument. Equipped with the latest technology and features at a cost-effective price, the 6330 is a good solution for applications requiring multiple safety tests.

The 6330 performs the following tests:

- AC Hipot
- DC Hipot
- Insulation Resistance
- Ground Bond
- Functional Run
- Line Leakage



- ▶ **Fully Adjustable Trip Ranges**
- ▶ **RS-232 Interface Option**
- ▶ **10 Memories, 20 Steps Per Memory**
- ▶ **Fully Adjustable Electronic Ramp & Dwell**
- ▶ **Built-in Measuring Devices for LLT**
- ▶ **Tamper Proof Front Panel Controls**

Slaughter®

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INPUT	
Voltage	115 / 230 V selectable, $\pm 10\%$ variation
Frequency	50 / 60 Hz $\pm 5\%$
Fuse	6.3 A slow blow 250 VAC

DIELECTRIC WITHSTAND TEST MODE	
Output Rating	3.5 kV @ 30 mAAC 4.0 kV @ 5 mADC
Voltage Setting	Range: 0.00 - 3.50 kVAC
	0.00 - 4.00 kVDC
	Resolution: 0.01 kV
Current Display	Accuracy: $\pm (2\% \text{ of setting} + 5 \text{ volts})$
	Range: 0.00 - 30.00 mAAC
	0.00 - 5.00 mADC
HI-Limit LO-Limit	Accuracy: $\pm (2\% \text{ of reading} + 2 \text{ counts})$
	AC Range: 0.00 - 30.00 mA
	Accuracy: $\pm (2\% \text{ of setting} + 2 \text{ counts})$
DC	Range: 0.00 - 5.00 mA
	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 6 kVDC @ 5 mA
Discharge Time	$\leq 200 \text{ ms}$
Max. Capacitive	1.00 μF < 1 kV 0.50 μF < 3 kV
Load in DC Mode	0.75 μF < 2 kV 0.08 μF < 4 kV
AC Wave Form	Sine Wave, Crest Factor = 1.3 - 1.5
AC Output Frequency	Range: 60 or 50 Hz, user selection
Output Regulation	$\pm (1\% \text{ of setting} + 5 \text{ V})$ 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 VDC Accuracy: $\pm (2\% \text{ of reading} + 5 \text{ volts})$
Resistance Display	Range: 1 - 1000 M Ω (4 digit, auto ranging)
	500 VDC 1000 VDC
	Resolution: M Ω M Ω M Ω
HI-Limit / LO-limit	0.01 1.00 - 40.00 1.00 - 80.00
	0.1 35.0 - 999.9 75.0 - 999.9
	Range: 1-1000 M Ω (0 = off)
Delay Timer	Range: 0, 0.5 - 999.9 sec (0 = constant)

GROUND BOND TEST MODE	
Output Voltage	Range: 6 VAC fixed
Output Frequency	Range: 60 or 50 Hz, user selectable
Output Current	Range: 3.0 - 30.0 AAC
Current Display	Range: 0.0 - 30.0 A
HI-Limit LO-Limit	0 - 510 m Ω for 3.0 - 10.0 A
	0 - 200 m Ω for 10.1 - 25.0 A
	0 - 150 m Ω for 25.1 - 30.0 A
Dwell Timer	Accuracy: $\pm (2\% \text{ of setting} + 2 \text{ counts})$
	Range: 0, 0.5 - 999.9 sec (0 = constant)
	Range: 0 - 100 m Ω
Milliohm Offset	Accuracy: $\pm (2\% \text{ of setting} + 2 \text{ counts})$

RUN TEST MODE	
DUT Power	Voltage: 0 - 277 VAC Single Phase Unbalanced 0 - 30 A maximum
	Current: 30 AAC 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 μs
Delay Time Setting	Range: 0.2 - 999.9 seconds
Dwell Time Setting	Range: 0, 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 = 2 k Ω $\pm 1\%$

LINE LEAKAGE TEST MODE	
DUT Power	Voltage: 0 - 277 VAC Single Phase Unbalanced 0 - 30 A maximum
	Current: 30 AAC 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 μs
Leakage Current (RMS Only)	Range: 0.0 μA - 6000 μA
	Accuracy: 15 to 100 kHz $\pm (2\% \text{ of reading} + 3 \mu\text{A})$
	(DC): >100 k 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 (1 k Ω)
X	External MD (1 k Ω)
Line Condition	Neutral, Reverse, Ground
Probe	G - L
HI-Limit / LO-limit	Range: 0 - 6000 μA
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
Interface	Optional RS-232 interface
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)