

## 2900 Series



### Hipot testers

The 2900 Series is our most popular line of Hipot testers. These instruments are designed to simplify every aspect of safety testing for operators of all comfort levels. Our 2900 Series includes the most intuitive user interface in the industry and won't take up too much space on the production line. With multiple memories and an optional RS-232 interface, you can quickly perform tests on a variety of DUT's from the front panel or with a PC. Use this series in stand-alone applications or interconnect with a 2600 series tester to form a complete test system for NRTL compliance. Choose from 3 different models to satisfy your testing requirements.

#### Relevant Applications:

- Appliance
- Lighting & LED Testing
- Power Tools
- Motors & Pumps

#### 2955:



#### 2965:



#### 2975:



#### 2900 Series Features:



- Intuitive user interface
- 10 programmable memories
- Tamper proof front panel controls
- Includes Continuity test function
- Automate with PLC control or optional RS-232 interface
- Remote Safety Interlock

# Model 2900 Specifications

INPUT	
Voltage	115/230 V selectable, $\pm 15\%$ variation
Frequency	50/60 Hz $\pm 5\%$
Fuse	2 A / 250 V fast acting 250 VAC
DIELECTRIC WITHSTAND TEST MODE	
Output	Rating: AC 0 - 5000 V, 2 V/step, 12 mA
	DC 0 - 6000 V, 2 V/step, 5 mA (DC mode on 2965 & 2975 models)
Voltage Setting	Voltage : $\pm (1\% \text{ of output} + 5 \text{ V})$
	Range: 0 V - max output rating, 10 V/step
	Resolution: 0.01 kV
	Accuracy: $\pm (2\% \text{ of setting} + 5 \text{ V})$ relative to displayed output, can be adjusted during operation via UP and DOWN arrow keys
AC Output Frequency	50/60 Hz user selectable
AC Wave Form	Form: Sine wave
	Distortion: $<2\%$ THD
DC Ripple	$<5\%$ at 6 kVDC / 5 mA ( 2965 & 2975)
Dwell Timer	Range: 0 and 0.2 - 999.9 seconds
	0.1 sec/step
Ramp Timer	0 for continuous running
	0 and 0.2 - 999.9 seconds
AC Mode Failure Settings	0.1 sec/step
	0 ramp setting = 0.1 sec fixed ramp
	2955: ramp = 0.1 sec fixed ramp
	High Limit: 0.10 - 12.00 mA, 0.01 mA/step
DC Mode Failure Settings	0.00, 0.10 - 12.00 mA, 0.01 mA/step (0=OFF) ( 2955, 2965, and 2975)
	Accuracy: $\pm (2\% \text{ of setting} + 0.02 \text{ mA})$
Timer Display	High Limit: 0.02 - 5.00 mA, 0.01 mA/step
	Low Limit: 0.00, 0.02 - 5.00 mA, 0.01 mA/step (0=OFF) ( 2965 and 2975)
Discharge Time	Accuracy: $\pm (2\% \text{ of setting} + 0.02 \text{ mA})$
	Range: 0.0 - 999.9 sec
Max. Capacitive Load in DC Mode	Resolution: 0.1 sec
	Accuracy: $\pm (0.1\% \text{ of reading} + 0.05 \text{ sec})$
	1.00 uF $<1\text{kV}$ 0.08 uF $<4\text{kV}$
	0.75 uF $<2\text{kV}$ 0.04 uF $<5\text{kV}$
Ground Continuity Check	0.50 uF $<3\text{kV}$ 0.01 uF $<6\text{kV}$
	Current: DC 0.1 A $\pm 0.01$ A, fixed
	High Limit: 0.00-1.50 $\Omega$
	Low Limit: 0.01-1.50 $\Omega$
	Offset: 0.00-0.50 $\Omega$
Resolution: 0.01 $\Omega$	Accuracy: $\pm (2\% \text{ of setting} + 0.02 \Omega)$

INSULATION RESISTANCE TEST MODE	
Output Voltage	Range: 100 - 1000 VDC
	Resolution: 10 V/step
	Accuracy $\pm (2\% \text{ of reading} + 5 \text{ volts})$
Voltage Display	Range: 100 - 1000 V
	Resolution: 10 V/step
	Accuracy $\pm (2\% \text{ of reading} + 5 \text{ volts})$
Resistance Display	Range: 1-1000 M $\Omega$ (4 digit, auto ranging)
	500 VDC 1000 VDC
	M $\Omega$ M $\Omega$ M $\Omega$
	Resolution: 0.01 1.00-40.00 1.00-80.00
	0.1 35.0-999.9 75.0-999.9
	Accuracy: $\pm (3\% \text{ of reading} + 2 \text{ counts})$ at test voltage $> 500 \text{ V}$
	Accuracy: $\pm (7\% \text{ of reading} + 2 \text{ counts})$ at test voltage $\leq 500 \text{ V}$
	High Limit Range: 0 - 1000 M $\Omega$ (0 = off)
	Low Limit Range: 1 - 1000 M $\Omega$
	Delay Timer Range: 0, 0.5 - 999.9 sec (0 = constant)
Resolution: 0.1 sec	Accuracy $\pm (0.1\% \text{ of reading} + 0.05 \text{ sec})$
GENERAL SPECIFICATIONS	
Remote Control & Signal Output	The following input and output signals are provided through the 9-pin D-type connector: 1. Remote control: Test, Reset & Interlock 2. Outputs: Pass, Fail, Test-in-Process
Memory	10 memories
Security	Lockout capability to avoid unauthorized access to all test parameters. Memory lockout to avoid unauthorized access to memory locations.
Interlock	Remote safety interlock standard.
Calibration	Software and adjustments made through front panel.
Line Cord	Detachable 6' (1.80 m) power cable terminated in a three prong grounding plug
Interface	Optional RS-232 interface
Mechanical	Tilt up front feet
Dimension (W x H x D)	11" x 3.5" x 11.81" (280 x 89 x 300 mm)
Weight	20 lbs. (9 kg)

Specifications subject to change without notice.

## Why We Use Counts

Slaughter publishes some specifications using "counts" which allows us to provide a better indication of the tester's capabilities across measurement ranges. A "count" refers to the lowest resolution of the display for a given measurement range. For example, if the resolution for voltage is 1V then 2 counts = 2V.

## Supplied Accessories

102-069-904	Return Clip (6 ft.) - Quantity 2.
102-055-913	Input Voltage Clip (6 ft.)
125-013-001	Input Power Cable (6 ft.)
99-10040-01	Interlock
99-10097-01	Fuse