

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, ± 15% variation |
| Frequency | 50/60 Hz ± 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 : ± (1% of output + 5 V) |
| Voltage Setting | Range: 0 V - max output rating, 10 V/step |
| | Resolution: 0.01 kV |
| | Accuracy: ± (2% of setting + 5 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 0 for continuous running |
| Ramp Timer | Range: 0 and 0.2 - 999.9 seconds |
| | 0.1 sec/step |
| | 0 ramp setting = 0.1 sec fixed ramp 2955: ramp = 0.1 sec fixed ramp |
| AC Mode Failure Settings | High Limit: 0.10 - 12.00 mA, 0.01 mA/step |
| | Low Limit: 0.00, 0.10 - 12.00 mA, 0.01 mA/step (0=OFF) (2955, 2965, and 2975) |
| | Accuracy: ± (2% of setting + 0.02 mA) |
| DC Mode Failure Settings | 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) |
| | Accuracy: ± (2% of setting + 0.02 mA) |
| Timer Display | Range: 0.0 - 999.9 sec |
| | Resolution: 0.1 sec |
| | Accuracy: ± (0.1% of reading + 0.05 sec) |
| Discharge Time | ≤ 200 ms |
| Max. Capacitive Load in DC Mode | 1.00 uF <1kV 0.08 uF < 4kV |
| | 0.75 uF <2kV 0.04 uF < 5kV |
| | 0.50 uF <3kV 0.01 uF < 6kV |
| Ground Continuity Check | Current: DC 0.1 A ± 0.01 A, fixed |
| | High Limit: 0.00-1.50 Ω |
| | Low Limit: 0.01-1.50 Ω |
| | Offset: 0.00-0.50 Ω |
| | Resolution: 0.01 Ω Accuracy: ± (2% of setting + 0.02 Ω) |

| INSULATION RESISTANCE TEST MODE | |
|--|--|
| Output Voltage | Range: 100 - 1000 VDC |
| | Resolution: 10 V/step |
| | Accuracy: ± (2% of reading + 5 volts) |
| Voltage Display | Range: 100 - 1000 V |
| | Resolution: 10 V/step |
| | Accuracy: ± (2% of reading + 5 volts) |
| Resistance Display | Range: 1-1000 MΩ (4 digit, auto ranging) |
| | Resolution: 500 VDC 1000 VDC |
| | MΩ MΩ MΩ |
| | 0.01 1.00-40.00 1.00-80.00 |
| | 0.1 35.0-999.9 75.0-999.9 |
| | Accuracy: ± (3% of reading + 2 counts) at test voltage > 500 V |
| | Accuracy: ± (7% of reading + 2 counts) at test voltage ≤ 500 V |
| | High Limit Range: 0 - 1000 MΩ (0 = off) |
| | Low Limit Range: 1 - 1000 MΩ |
| | Delay Timer Range: 0, 0.5 - 999.9 sec (0 = constant) |
| Resolution: 0.1 sec | |
| Accuracy: ± (0.1% of reading + 0.05 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 |