Microprocessor-Controlled Digital

Hipot Testers

Models 1305, 2503, 2510 & 2550

For Production Line Safety Compliance Testing

Microprocessor-Control Provides...

USER SAFETY:

- No High Voltage Present During Setup
- Front Panel Calibration

EASE OF USE:

- Simple Front Panel Controls
- Easy-to-Read LED Display
- Test Parameters Stored in Memory

RELIABILITY:

- Tamper-Resistant Front Panel Controls
- Line & Load Regulation for Consistent Testing

Slaughter

Instruments for Electrical Test & Measurement

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The name you have come to know and trust for over 50 years in Electrical Safety Testing Instruments now brings you a revolutionary new line of high-performance, low-cost, bench-top safety compliance testers.

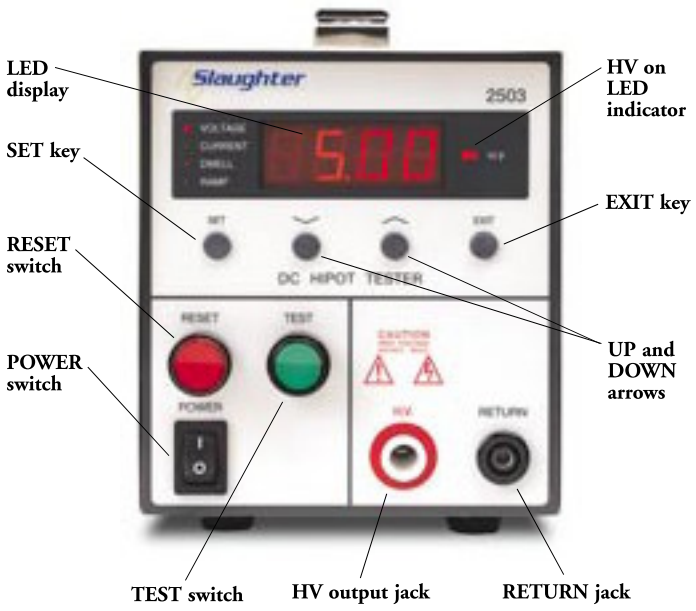
These AC and DC hipots, packed with features previously only found in instruments costing hundreds of dollars more, provide the enhanced capabilities, safety features, and reliability made possible by microprocessor technology at realistic and affordable prices, below what you would expect to pay for older analog technology.

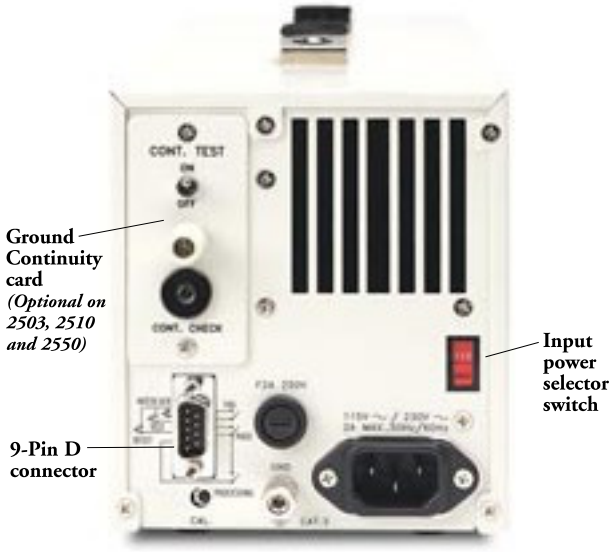
Designed for high-speed, high-volume production line testing, these portable, rugged, easy-to-use instruments are equally well suited for the needs of large and small businesses alike, setting a new industry standard for price/performance.

Please take a few minutes to review the many features and benefits outlined below, along with the detailed product specifications on the accompanying pages. We think you will agree that these hipots are the safest, most reliable and cost-effective production line testers available today!

Features & Benefits

FEATURE	BENEFIT
Agency Compliance	All models meet the UL 120KΩ test requirement, and three (Models 2503, 2510 and 2550) meet most UL, CSA, VDE and IEC testing requirements. All units feature audible and visual failure alarms, and shut off high voltage upon reject.
No High Voltage Present During Setup	Operators can set output voltages and trip currents to desired levels in the absence of any high voltage, a key safety feature that conventional analog hipot testers lack.
Front Panel Calibration	Annual calibrations can be performed safely and efficiently on these instruments using the front panel controls. This eliminates the need for a technician to open the instrument with high voltage present, an important safety feature.
Tamper-Resistant Front Panel Design	Prevents operators from inadvertently or accidentally modifying test parameters, and ensures consistent and reliable test results, minimizing the need for costly and time consuming product re-testing.
LED Display With Meter Memory	Easy-to-read digital display simplifies the task of setting test parameters and interpreting test results, which reduces errors and makes the operator's job easier. Meter memory allows operators to review last test results, including breakdown voltage on models with ramping.
Line & Load Regulation	Tests are more repeatable and reliable, since proper voltage is consistently applied to all devices being tested, regardless of fluctuations in line input voltage or the load created by the device under test.
Electronic Ramp & Dwell	Required by some outside agencies, but until now only available in instruments costing hundreds of dollars more. This feature ensures that voltage is consistently increased to a preset level during a test and is maintained at that level for a specified period of time.
Ground Continuity	Available with select models, this option, when combined with our remote receptacle box, allows customers to verify ground continuity in products with grounded line cords.
PLC Remote Control	A standard 9-pin interface provides outputs for Pass, Fail and Test in Process. It also provides inputs for Test, Reset and Safety Interlock. This gives the user all the basic remotes required to configure these instruments through simple PLC relay control.





µP-Controlled Hipot Specifications

Model 1305

- Basic Agency Compliance including UL 120KΩ
- 0.00-5.00mA AC Trip
- Continuous & Momentary Dwell
- Includes:
  HV Retracting Safety Probe & Lead
  Ground Return Clip & Lead
  NIST Traceable Certificate
- Remote Receptacle *(optional)*

Models 2503/2510

- Meets most UL, CSA, VDE & IEC requirements, including UL 120KΩ
- 0.00-3.00mA DC Trip (model 2503)
- 0.00-10.00mA AC Trip (model 2510)
- Includes:
  HV Retracting Safety Probe & Lead
  HV Clip & Lead
  Ground Return Clip & Lead
  NIST Traceable Certificate
- Remote Receptacle *(optional)*

AC/DC Model 2550

- Meets most UL, CSA, VDE & IEC requirements, including UL 120KΩ
- 0.00-3.00mA DC Trip
- 0.00-10.00mA AC Trip
- Includes:
  HV Retracting Safety Probe & Lead
  HV Clip & Lead
  Ground Return Clip & Lead
  NIST Traceable Certificate
- Remote Receptacle *(optional)*

	1305 3.0 kV	2503 5.0 kV	2510 5.0 kV	2550 5.0 kV
AC Hipot	●		●	●
DC Hipot		●		●
Ground Continuity *(optional)*		●	●	●
Meter Memory		●	●	●
Electronic Ramp & Dwell		●	●	●
Line & Load Regulation	●	●	●	●
No-Load Setup	●	●	●	●
Setup Storage	●	●	●	●

INSTRUMENT SPECIFICATIONS

MODEL	1305	2510, 2550	2503, 2550
INPUT VOLTAGE	115/230V selectable, ± 15% variation; 47 - 63 Hz		
FUSE	115 VAC, 230 VAC – 2A fast acting 250 VAC		
OUTPUT Rating:	AC 0 - 3000V, 5 mA	AC 0 - 5000V, 10 mA	DC 0 - 5000V, 3 mA
Regulation:	± (1% of output + 5V)	± (1% of output + 5V)	± (1% of output + 5V)
VOLTAGE SETTING Accuracy:	0.01KV - 3KV, 10 volts/step ± (2% of setting + 5V) (relative to displayed output)	0.01KV - 5KV, 10 volts/step Can be adjusted during operation via UP and DOWN arrow keys	0.01KV - 5KV, 10 volts/step
RIPPLE	N/A	N/A	< 5% at 5 KV DC/3 mA
DWELL TIME SETTING	ON = Continuous OFF = Momentary	0 = Continuous 1 = One Second Test; 60 = Sixty Second Test	
RAMP SETTING	N/A	0 and 0.2 – 999.9 seconds, 0.1 second/step 0 ramp setting = 0.1 seconds fixed ramp	
PULSE	ON = Automatic reset after failure OFF = Manual reset after failure	N/A	N/A
FAILURE SETTING High Limit:	0.00 - 5.00 mA, 0.01 mA/step	0.00 - 10.00 mA, 0.01 mA/step	0.00 - 3.00 mA, 0.01 mA/step
Accuracy:	± (2% of setting + 0.02 mA)	± (2% of setting + 0.02 mA)	± (2% of setting + 0.02 mA)
METERING		Exit key used to toggle between KV and mA	
Voltmeter:	3 digits	4 digits	4 digits
Range:	AC 0.00 - 3.00 KV	AC 0.00 - 5.00 KV	DC 0.00 - 5.00 KV
Resolution:	0.01 KV	0.01 KV	0.01 KV
Accuracy:	± 2% of reading + 10 V	± 2% of reading + 10 V	± 2% of reading + 10 V
Ammeter:	N/A	4 digits	4 digits
Range:	N/A	AC 0.00 - 10.00 mA	DC 0.00 - 3.00 mA
Resolution:	N/A	0.01 mA	0.01 mA
Accuracy:	N/A	± 2% of reading + 0.02 mA	± 2% of reading + 0.02 mA
TIMER DISPLAY Range:	N/A	0.0 - 999.9 seconds	
Resolution:	N/A	0.1 second	
Accuracy:	N/A	± 0.1% of reading + 0.05 seconds	
GROUND CONTINUITY CHECK (OPTIONAL)	N/A	Current: DC 0.1A ± 0.01A, fixed Max. ground resistance: 1 ohm ± 0.1 ohm, fixed Included with this option is a U.S. style (NEMA 5-15) remote receptacle box for testing items terminated with a line cord. International receptacle boxes available.	
REMOTE INPUT	Test start input through a 9-pin D type connector.	The following input and output signals are provided through the 9-pin D type connector; 1. Remote Control: Test, Reset and Safety Interlock 2. Outputs: Pass, Fail and Test in Process	
LINE CORD	Detachable 7 ft. (2.13m) power cable terminated in a three prong grounding plug.		
TERMINATIONS	HV Safety Retracting Probe with 6 ft. (1.82m) Lead. Ground Return Clip with 6 ft. (1.82m) Lead	HV Safety Retracting Probe with 6 ft. (1.82m) Lead. HV Clip with 6 ft. (1.82m) Lead. Ground Return Clip with 6 ft. (1.82m) Lead.	
MECHANICAL Dimensions:	(W x H x D) 4.75 x 5.75 x 14.50 in. (120 x 146 x 370 mm)		
Weight:	16.0 lbs. (7.25 Kgs)		

For additional information and product specifications please contact us at **Toll Free: 1-800-504-0055**

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