

Hipot Tester

2500 Series Hipot Tester

Relevant Applications

Motors • Switches and Controls • Manufactured / Modular Homes • Recreational Vehicles

Features

- Safety Made Simple
- Portable design and user-friendly interface
- Remote Safety Interlock
- Optional Ground Continuity (2503, 2510, 2550)
- Tamper proof front panel controls



2503 - DC Hipot

The 2503 is a 5 KV, 3 mA DC Hipot tester that is designed for quick and easy production line DC Hipot testing. It features a LED display, menu driven parameter control, electronic ramp and dwell and a memory or parameter storage. An optional ground continuity check feature is available.

2510 - AC Hipot

The 2510 is a 5 KV, 10 mA AC Hipot tester that is designed for quick and easy production line testing. Features include an LED display, menu driven parameter control, electronic ramp and dwell and a memory for parameter storage. An optional ground continuity check feature is available.

2525 - AC Hipot, Ground Continuity, 500VA

2550 - AC Hipot, DC Hipot

The 2550 is a 5 KV, 10 mA AC and a 5 KV, 3 mA DC Hipot tester that is designed for quick and easy production line Hipot testing. It features a LED display, menu driven parameter control, electronic ramp and dwell and a memory for parameter storage. An optional ground continuity check feature is available.

Specifications:

Model	2503	2510	2525	2550
	DC Hipot	AC Hipot	AC Hipot, Ground Continuity, 500VA	AC Hipot, DC Hipot
Input				
Voltage	115/230V selectable +/- 15%	115/230V selectable +/- 15%	-	115/230V selectable +/- 15%
Frequency	47 ~ 63 Hz	47 ~ 63 Hz	-	47 ~ 63 Hz
Fuse	115VAC, 230VAC 2A fast acting 250VAC	115VAC, 230VAC 2A fast acting 250VAC	115VAC, 230VAC 15A fast acting 250VAC	115VAC, 230VAC 2A fast acting 250VAC
Dielectric Withstand Test mode				
Output	DC 0 – 5000 V, 3 mA	AC 0 – 5000 V, 10 mA	AC 0 – 5000V, 10V / step, 100mA	AC 0 – 5000 V, 10 mA; DC 0 – 5000 V, 3 mA
- Regulation	± (1 % of output + 5V)			
Voltage Setting				
- Range	0.01 kV – 5 kV	0.01 kV – 5 kV	-	0.01 kV – 5 kV
- Resolution	10 volts/step			
- Accuracy	± (2 % of Setting + 5 V) (relative to displayed output). Can be adjusted during operation via Up & Down Arrow keys.			
Ripple	< 5 % at 5 kVDC / 3 mA	-	-	< 5 % at 5 kVDC / 3 mA
Dwell Time	0, 1 or 60, 0 for continuous running	0, 1 or 60, 0 for continuous running	0 and 0.2 – 999.9 seconds, 0.1 second / step "0" for continuous running	0, 1 or 60, 0 for continuous running
Ramp Timer	0 and 0.2 - 999.9 sec: 0.1 sec / step	0 and 0.2 - 999.9 sec: 0.1 sec / step	-	0 ramp setting: 0.1 sec fixed ramp
Failure Setting				
- High Limit	0.02 – 3.00 mA	0.10 – 10.00 mA	0.00 – 99.99 mA	0.10 – 10.00 mA and 0.02 – 3.00 mA
- Low Limit	-	-	0.00 – 99.99 mA, 0.01 mA/step (0= OFF)	-
- Resolution	0.01 mA / Step			
- Accuracy	± (2 % of setting + 0.02 mA)			

Hipot Tester

Model	2503	2510	2525	2550
	DC Hipot	AC Hipot	AC Hipot, Ground Continuity, 500VA	AC Hipot, DC Hipot
Metering				
- Voltmeter Range	DC 0.00 – 5.00 kV	AC 0.00 – 5.00 kV	AC 0.00 – 5.00 kV	AC 0.00 – 5.00 kV; DC 0.00 – 5.00 kV
- Resolution	0.01 kV			
- Accuracy	± (2 % of reading + 10 V)			
- Ammeter Range	DC 0.00 – 3.00 mA	AC 0.00 – 10.00 mA	AC 0.00 – 99.99 mA	AC 0.00 – 10.00 mA; DC 0.00 – 3.00 mA
- Resolution	0.01 mA	0.01 mA	0.01 mA	0.01 mA
- Accuracy	± (2 % of reading + 0.02 mA)			
Timer Display				
- Range	0.0 – 999.9 seconds			
- Resolution	0.1 second			
- Accuracy	± (0.1% of reading + 0.05 sec)			
Discharge Time	≤ 300 ms			≤ 300 ms
Max. Capacitive Load	1 uF < 1 kV			1 uF < 1 kV
	0.75 uF < 2 kV			0.75 uF < 2 kV
	0.5 uF < 3 kV			0.5 uF < 3 kV
	0.08 uF < 4 kV			0.08 uF < 4 kV
	0.04 uF < 5 kV			0.04 uF < 5 kV
Optional Ground Continuity Check				
- Current	DC 0.1 A ± 0.01 A, fixed			
- Max Ground Resistance	1Ω ± 0.1 Ω, fixed			

General Specifications				
PLC Remote Control and Signal Output	The following input & output signals are provided through the 9 pin D type connector:			
	1. Remote control: test, reset & interlock.			
	2. Outputs: pass, fail & test in process.			
Line Cord	Detachable 6' (1.80 m) power cable terminated in a three prong grounding plug.			
Terminations	6' (1.80 m) high voltage safety retracting probe, 6' (1.80 m) high voltage clip probe & 6' (1.80 m) return clip lead.			
Dimensions (W x H x D)	4.75" x 5.75" x 14.50" (120 x 146 x 370 mm)	4.75" x 5.75" x 14.50" (120 x 146 x 370 mm)	17" x 5.8" x 12" (432 x 147 x 305mm)	4.75" x 5.75" x 14.50" (120 x 146 x 370 mm)
Weight	16.5 lbs. (7.5 kgs)	16.5 lbs. (7.5 kgs)	56.70 Lbs. (25.92 kgs)	16.5 lbs. (7.5 kgs)

2525 Supplied Accessories

- 102-050-913 High Voltage Probe (6 ft.)
- 102-069-904 Return Clip (6 ft.)
- 102-055-913 High Voltage Clip (6 ft.)
- 99-10164-01 Input Power Cable (6 ft.)
- 99-10040-01 Interlock
- 99-10168-01 Fuse

2550, 2510 & 2503 Supplied Accessories

- 102-050-913 High Voltage Probe (6 ft.)
- 102-069-904 Return Clip (6 ft.)
- 102-055-913 High Voltage Clip (6 ft.)
- 125-013-001 Input Power Cable (6 ft.)
- 99-10040-01 Interlock
- 99-10097-01 Fuse

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Hipot Tester

2900 Series Hipot Testers

Relevant Applications

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

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



2955 - AC Hipot, Ground Continuity

Featuring our most advanced technology, the 2955 is a 5 KV, 12 mA AC Hipot tester that allows manufacturers to quickly and cost-effectively perform AC Hipot tests. It includes features such as a liquid crystal display, menu driven parameter control, electronic ramp, fully adjustable electronic dwell, fully adjustable Continuity test mode, 10 test set up memories, front panel lockout, standard remote safety interlock and an optional RS-232 interface. The 2955 is also NRTL safety agency listed.

2965 - AC Hipot, DC Hipot, Ground Continuity

Featuring our most advanced technology, the 2965 is a 5 KV, 12 mA AC and 6 KV, 5 mA DC Hipot tester that allows manufacturers to quickly and easily perform AC or DC Hipot tests. It includes features such as a liquid crystal display, menu driven parameter control, electronic ramp, fully adjustable electronic dwell, fully adjustable Continuity test mode, 10 test set up memories, front panel lockout, standard remote safety interlock and an optional RS-232 interface. The 2965 is also NRTL safety agency listed.

2975 - AC Hipot, DC Hipot, Ground Continuity, Insulation Resistance

Featuring our most advanced technology, the 2975 is a 3-in-1 Hipot tester that will perform AC, DC Hipot with a built-in Insulation Resistance tester. It will perform a 5 KV, 12 mA AC and a 6 KV, 5 mA DC Hipot test. It includes features such as a liquid crystal display, menu driven parameter control, electronic ramp, fully adjustable electronic dwell, fully adjustable electronic dwell, fully adjustable Continuity test mode, 10 test set up memories, front panel lockout, standard remote safety interlock and an optional RS-232 interface. The 2975 is also NRTL safety agency listed.

Model	2955	2965	2975
	AC Hipot, Ground Continuity	AC Hipot, DC Hipot, Ground Continuity	AC Hipot, DC Hipot, Ground Continuity, Insulation Resistance
Input			
Voltage	115/230V selectable +/- 15%		
Frequency	50/60 Hz ± 5%		
Fuse	2 A / 250 V fast acting 250 VAC		

Dielectric Withstand Test mode			
Output			
- AC	AC 0 - 5000 V, 2 V/step, 12 mA		
- DC	-	DC 0 - 6000 V, 2 V/step, 5 mA	DC 0 - 6000 V, 2 V/step, 5 mA
- Regulation	± (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	Sine Wave		
AC Distortion	<2% THD		
DC Ripple	-	<5% at 6 kVDC / 5 mA	<5% at 6 kVDC / 5 mA
Dwell Time - 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 Setting			
- 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 Setting			
- 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)		

Hipot Tester

Model	2955	2965	2975
	AC Hipot, Ground Continuity	AC Hipot, DC Hipot, Ground Continuity	AC Hipot, DC Hipot, Ground Continuity, Insulation Resistance
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		
Optional 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		500VDC	1000VDC
	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 ± (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 and 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
Memories	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
Dimensions (W x H x D)	11" x 3.5" x 11.81" (280 x 89 x 300 mm)
Weight	20 lbs. (9 kg)

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

1300 Series Hipot Tester

Relevant Applications

- Motors • Manufactured / Modular Homes • Recreational Vehicles

Features

- Portable design and user-friendly interface
- Exclusive PULSE mode for continuous testing
- Remote Safety Interlock (1340)
- Optional Ground Continuity (1340)



Model	1305	1340
	AC Hipot, 3kV	AC Hipot, 2.5 kV
Input		
- Voltage	115/230V AC +/- 15%, user selection	
- Frequency	47 - 63 Hz	
- Fuse	115VAC, 230 VAC 3.15A slow blow 250 VAC	
Test mode		
Output		
- AC	0 - 3000 V, 5 mA	2.5 kVAC @40mA; 2.5 kVAC @10mA when pulse mode is activated
- Regulation	± (1% of output + 5 V) from no load to full load	
Voltage Setting		
- Range	0.01 kV - 3.00 kV	0.00 - 2.50 kV
- Resolution	10V/step	
- Accuracy	± (2% of setting + 5 V) relative to displayed output	
Dwell Setting	On, HV remains on after "TEST" button is pushed	0.0 sec, 1.0 sec, 60.0 sec, off 0.0 for continuous running
	Off, HV present only when "TEST" button is pushed	OFF: HV present only when "TEST" button is pushed
Ramp/ Pulse Setting	On, Automatic reset after failure for continuous testing. (Not for Compliance Testing)	PULSE: automatic reset after failure for continuous testing. Range: Pulse, 0.1 – 999.9 sec Resolution: 0.1 second/step Accuracy: ± (0.1% + 0.05 sec)
	Not for compliance testing	
Failure Setting		
- High Limit	0.00 – 5.00 mA	0.00 – 40.00 mA, 0.00 – 10.00 mA when PULSE mode is activated
- Resolution	0.01 mA / Step	0.01 mA / step
- Accuracy	± (2 % of setting + 0.02 mA)	± (2% of setting + 0.02 mA)

Metering (4 digits)		
Voltmeter		
- Range	AC 0.00 – 3.00 kV	0.00 – 2.50 kV
- Resolution	0.01 kV	0.01 kV
- Accuracy	± (2 % of reading + 10 V)	± (2% of reading + 10 volts)
Ammeter		
- Range		0.00 – 40.00 mA, 0.00 – 10.00 mA when PULSE mode is activated
- Resolution		0.01 mA
- Accuracy		± (2% of reading + 0.02 mA)
Timer		
- Range		0.0 – 999.9 sec
- Resolution		0.1 sec
- Accuracy		± (0.1% of reading + 0.05 sec)

General Specifications			
Remote Control	The following input and output signals are provided through the 9-pin D-type connector: <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">Test Input</td> <td style="width: 50%; text-align: center;">Test, reset, and interlock</td> </tr> </table>	Test Input	Test, reset, and interlock
Test Input	Test, reset, and interlock		
Optional Ground Continuity Check	Outputs: pass, fail, and test-in-process Max Ground Resistance: $1 \Omega \pm 0.1 \Omega$, fixed		
Calibration	Software and adjustments made through front panel.		
Mechanical	Bench top model		
Line Cord	Detachable 6' (1.80 m) power cable terminated in a three prong grounding plug		
Terminations	6' (1.80 m) high voltage safety retracting probe; 6' (1.80 m) high voltage clip probe; 6' (1.80 m) return clip lead		
Dimensions (W x H x D)	4.75" x 5.75" x 14.5" (120 x 146 x 370 mm)		
Weight	16.0 lbs. (7.25 kgs) 20 lbs. (9 kg)		

1305 Supplied Accessories

- 102-050-913 High Voltage Probe (6 ft.)
- 102-069-904 Return Clip (6 ft.)
- 125-013-001 Input Power Cable (6 ft.)
- 99-10097-01 Fuse

1340 Supplied Accessories

- 102-050-913 High Voltage Probe (6 ft.)
- 102-055-913 High Voltage Clip (6 ft.)
- 102-069-904 Return Clip (6 ft.)
- 125-013-001 Input Power Cable (6 ft.)
- 99-10398-01 Fuse

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2200 Series Hipot Tester

The 2205 is stand-alone Insulation Resistance tester designed for use on the production line or in the field. With measurements up to 200 GΩ at voltages up to 1000 VDC, the 2205 can satisfy even the most demanding application requirements. We've incorporated the most user-friendly interface in the industry and a portable design for safe and easy testing.

Relevant Applications

- Motors • Switches and Controls • Cable and Harness • Aerospace

Features

- Portable design
- User-friendly interface
- Automate with PLC control
- Remote Safety Interlock



Model	2205		
	Insulation Resistance		
Input			
Voltage	115/230V selectable +/- 15%		
Frequency	50/60 Hz ± 5%		
Fuse	1A / 250 V fast acting		
Insulation Resistance Test			
Output Voltage			
- Range	30 - 1000 VDC		
- Resolution	1 Volt		
- Accuracy	± (1% of Setting + 1 V) (relative to displayed output)		
- Ripple	< 2%		
Voltage Display			
- Low Range	0.0 V - 100.0 VDC		
- High Range	101 V - 1000 VDC		
- Resolution	0.1 V (low range), 1 V (high range)		
- Accuracy	± (2% of reading + 2 V)		
Resistance Display			
-Range	0.01 MΩ - 200.0 GΩ (4 digit, auto ranging)		
-Resolution		300-499V	500-1000V
	.001 MΩ - .1 MΩ	0.1 MΩ - 1 GΩ	0.1 MΩ - 1 GΩ
	1 MΩ - .01 GΩ	1 GΩ - 20 GΩ	1 GΩ - 20 GΩ
	0.1 GΩ		20 GΩ - 200 GΩ
-Accuracy		300-499V	500-1000V
		0.1MΩ-1GΩ ± (3% of reading + 2 counts)	0.1MΩ-1GΩ ± (2% of reading + 2 counts)
		1-20GΩ ± (5% of reading + 2 counts)	1-20GΩ ± (3% of reading + 2 counts)
			20-200GΩ ± (10% of reading + 2 counts)
Timer Display			
-Range	0.0 - 999.9 seconds		
-Resolution	0.1 second		
-Accuracy	± (0.1% of reading + 0.05 seconds)		
Failure Settings			
-Low Limit	0.1 MΩ - 999.9 MΩ		
	1000 MΩ - 9999 MΩ		
	10.0 GΩ - 200.0 GΩ		
Dwell Time Setting	1.0 - 999.9 seconds, 0.1 second / step		
	"0" for continuous running		
Delay Time Setting	0.1 - 999.9 seconds, 0.1 second / step		
Discharge	Automatic Discharge of Device Under Test		
	Indicator: Green < 30 V, Red > 30 V		

Hipot Tester

General Specifications	
PLC Remote Control	The following input and output signals are provided through the 9-pin D-type connector: 1. Inputs: test , reset, safety interlock 2. Outputs: pass, fail and test in progress
Line Cord	Detachable 6' (1.80 m) power cable terminated in a three prong grounding plug
Terminations	High Voltage Output: Alden Socket Shielded Return: BNC Connector
Dimensions (W x H x D)	4.75" x 5.25" x 11.75" (120 x 133 x 300 mm)
Calibration	Software & adjustments made through front panel
Weight	11 lbs. (5 kg)

Supplied Accessories

- 102-045-901 IR Return Clip
- 102-055-913 High Voltage Clip (6 ft.)
- 125-013-001 Input Power Cable (6 ft.)
- 99-10040-01 Interlock
- 99-10258-01 Fuse

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