

## KEY SAFETY FEATURES

- **RECESSED, LOCKING HIGH VOLTAGE CONNECTION** — Minimizes user accessibility to high voltage. Also prevents the output lead from being accidentally removed from the high voltage outlet.
- **INTERLOCK PROVISION** — Allows easy installation of any type of safety switch into the interlock circuit. Breaking this circuit will disable the high voltage output.
- **OVER CURRENT PROTECTION with Manual Reset** — Protects the test object from excess current levels by rapidly shutting down the high voltage. The overload sensitivity is continuously adjustable to allow testing of various test loads.
- **AUDIBLE/VISUAL ALARMS** — The audible and visual alarms provide a clear indication of an overload situation or a go/no-go failure.
- **ZERO START INTERLOCK** — Ensures that the voltage control adjustment is at zero before the high voltage transformer can be energized. This feature ensures that the high voltage is not applied instantly to the object under test, which is potentially harmful in certain applications.
- **GRAVITY OPERATED SOLENOID** — Discharges the object under test when a failure occurs in that object or when the power is turned off.
- **OUTPUT CONNECTED VOLTMETER** — Ensures accurate voltage measurement regardless of output loading.



**HIPOTRONICS**  
THE MEASURE OF A LEADER

# 100 Series AC/DC Hipot Insulation Testers



*Model HD125  
AC/DC Hipot Tester*

## BENEFITS

- **TWO TESTS IN ONE UNIT** — Eliminates need for purchasing separate AC and DC Hipot.
- **MEETS INDUSTRY SPECIFICATIONS** — Tests to most UL, CSA, VDE, IEC, MIL, BSI, BABT and other industry standards for Dielectric Withstand Testing.
- **RACK MOUNTABLE** — Easy installation into a 19" rack.
- **NIST TRACEABILITY** — All meters are traceable to the National Institute of Standards and Technology.

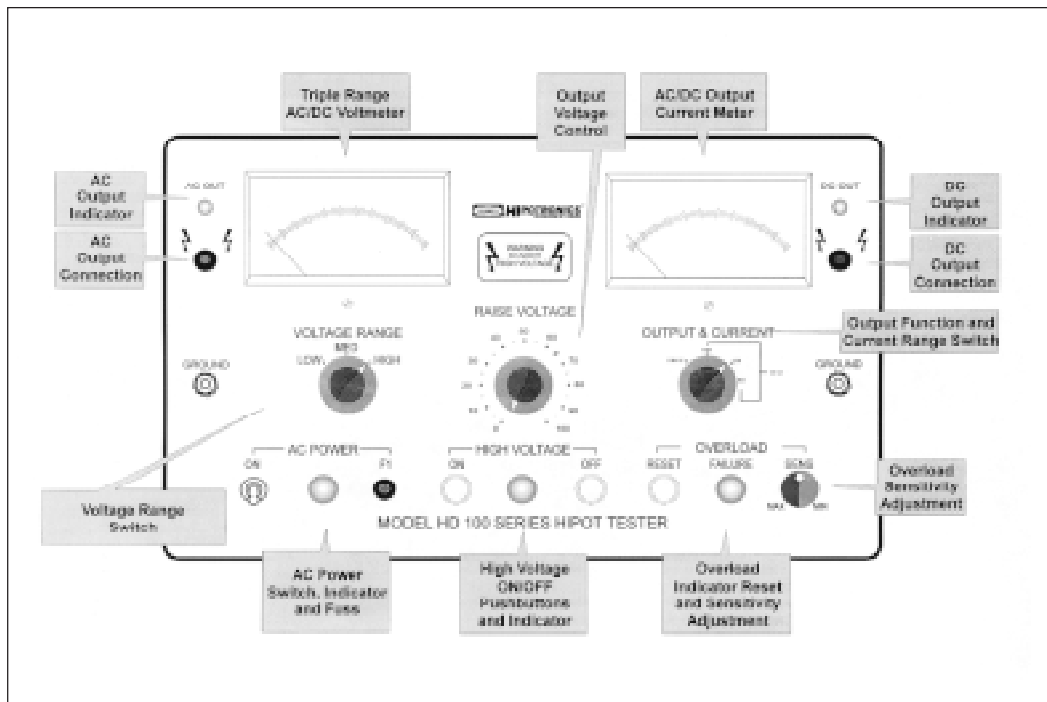
## APPLICATIONS

The most common applications are for testing of:

- high voltage tubes
- capacitors
- transformers
- wire and cable
- coils and chokes
- motors and generators
- connectors
- medical devices
- appliances
- switches and relays

## DESCRIPTION

The 100 Series AC/ DC Hipots are accurate, durable instruments designed to perform hipot tests on all types of electrical products, systems, and components. They are designed to perform AC and DC dielectric tests.



HD100  
Panel Detail

## SPECIFICATIONS

<b>METERS</b>	4-1/2" meter, $\pm 2\%$ full scale accuracy				
<b>OVERLOAD SENSITIVITY</b>	Adjustable from 0.5 mA to 5.5 mA				
<b>OUTPUT CURRENT METER RANGE</b>	0-5 mA ac, 0-50/500/5000 $\mu$ A dc				
<b>TERMINATIONS</b>	High voltage lead – 5 ft. long shielded high voltage test lead of RG58/U (RG8/U for HD140) with alligator clip. Ground lead – 5 ft. long insulated test lead with alligator clip.				
<b>INPUT VOLTAGE</b>	Model number suffix -A 120 V / 60 Hz Model number suffix -B 220 V / 50 Hz				
<b>MODEL</b>	<b>OUTPUT VOLTAGE*</b>		<b>VOLTMETER RANGE</b>	<b>NET WEIGHT</b>	<b>SHIP WEIGHT</b>
<b>HD103</b>	0-2.5 kV ac	0-3.0 kV dc	0-0.6/1.2/3.0 kV	46 lb (21 kg)	59 lb (27 kg)
<b>HD106</b>	0-5.0 kV ac	0-6.0 kV dc	0-1.2/3.0/6.0 kV	51 lb (23 kg)	64 lb (29 kg)
<b>HD115</b>	0-12.5 kV ac	0-15.0 kV dc	0-3.75/7.5/15.0 kV	75 lb (34 kg)	85 lb (39 kg)
<b>HD125</b>	0-10.0 kV ac	0-25.0 kV dc	0-5.0/10.0/25.0 kV	75 lb (34 kg)	85 lb (39 kg)
<b>HD140</b>	0-15.5 kV ac	0-40.0 kV dc	0-8.0/16.0/40.0 kV	82 lb (37 kg)	92 lb (47 kg)
<b>DIMENSIONS</b>	21"W x 19"D x 11"H (54 x 48 x 28 cm)				

\* DC output voltage is negative with respect to ground.

## ACCESSORIES

- Safety Test Cage – The interlocked test cage door shuts off high voltage if the door opens. Catalog No. TC-25.
- Retractable Test Probe – The spring loaded, pistol-like probe allows exposure of high voltage only when the voltage is to be applied to the object under test (not rated for use with the HD115, HD125 or HD140). Catalog No. HTP-R.
- Fixed Test Probe – Allows easy application of the high voltage to the object under test. Rated for use with all models except the HD140. Catalog No. HTP-F.
- Spare Parts Kits – Catalog Nos. SPK1-HD103, SPK1-HD106, SPK1-HD115, SPK1-HD125 & SPK1-HD140

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NOTE: Because Hipotronics has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.