

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.



### 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.

### 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:

1. high voltage tubes
2. capacitors
3. transformers
4. wire and cable
5. coils and chokes
6. motors and generators
7. connectors
8. medical devices
9. appliances
10. switches and relays

[Pass your mouse over here to see a drawing of the front panel layout.](#)

## Specifications

<i>Model No.</i>	<b>Output Voltage*</b>	<b>Voltmeter Range</b>	<b>Weight</b>
<b>HD103</b>	0-2.5 kV AC 0-3.0 kV DC	0-0.6/1.2/3.0 kV	Net - 46 lb. (21 kg) Shipping- 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	Net - 51 lb. (23 kg) Shipping- 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	Net - 75 lb. (34 kg) Shipping- 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	Net - 75 lb. (34 kg) Shipping- 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	Net - 82 lb. (37 kg) Shipping- 92 lb (47 kg)

**Meters** 4.5" Analog Meter;  $\pm 2\%$  Full Scale Accuracy

**Overload Sensitivity** Adjustable from 0.5 mA to 5.5 mA

**Output Current Meter Range** 0-5 mA AC, 0-50/500/5000 uA DC

**Terminations** High Voltage Lead - 5ft. long shielded high voltage test lead of RG58/U (RG8/U for HD140) with alligator clip.

Ground Lead - 5ft. long insulated test lead with alligator clip.

**Input Voltage** Model Suffix A - 120V, 60 hz  
Model Suffix B - 220V, 50 hz

**Dimensions** 21" w x 19" d x 11" h  
(54 cm x 48 cm x 28 cm)

*Notes:*

*\* 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

### On-Line Publications For This Product

*with complete specification information*

100 Series

AC/DC Hipot Insulation Testers

[HD100.pdf](#)

135K

[On-Line Publications](#)

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