



HVT-DI SERIES

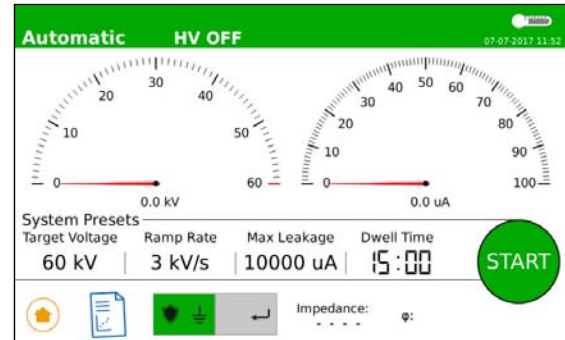
HIPOTRONICS

Digital AC Hipot Testers – 30kV, 60kV & 100kV



The HVT-DI Series AC Hipot Testers are the most modern digital solution to AC field-testing of bucket trucks, aerial platforms, vacuum interrupters, breakers, switchgear, and other electrical apparatus. Each model includes a portable digital controls section and bonnet and is complete with an input line cord, interconnecting cable and ground leads.

The 100kV model is specifically designed for ANSI/SIA A92.2 specification procedures for testing insulating booms on work platforms and bucket trucks. Whereas, the 30kV and 60kV models are designed to perform quick and accurate AC dielectric tests. In addition, the 100kV model is designed for higher output current, up to 100mA at the 50kV tap. The HVT Digital series assures accurate voltage and current measurements using a high voltage divider and double current meter in the return leg of the high voltage transformer. A guard circuit prevents stray or surface leakage from being measured by the current meter. To ensure safe operation the unit is equipped with a fast-acting fuse, an external interlock, and E-Stop.



FEATURES

- Lightweight, rugged design** for field use with wheels
- Multiple measurements** including output voltage, leakage current, impedance, and phase angle
- Adjustable test parameters** such as target voltage, maximum leakage current, ramp rate, and dwell time
- Record and view test results** in the internal memory
- 7" color touchscreen display** with adjustable brightness
- Most accurate current measurement** and guard circuit designed to eliminate stray leakage currents
- Meets ANSI/SIA A92.2** test specifications
- HIPODirect Mobile App Compatible: View, Share, Upload** test reports to online cloud, and update firmware all through WIFI Direct

BENEFITS

- Simple to Use** with minimal amount of setup time and intuitive control panel allows for simple testing
- Sturdy and portable** design
- User-friendly** touchscreen interface
- Easy to share results** via USB transfer
- Safe operation** with interlock and emergency stop

APPLICATIONS

Brief Description

- Aerial Platform
- Bucket Trucks
- Hydraulic hoses
- Hot Sticks, Gloves, and Ropes
- Switchgears, Vacuum bottles, and Vacuum Interrupters



TECHNICAL SPECIFICATIONS

Model #		30HVT-DI	60HVT-DI	100HVT-DI
System Output	Voltage	0.4 – 30kV	0.4 – 60kV	1 – 100kV
	Frequency	50/60Hz		
	Current	10mA		50mA (100kV tap) 100mA (50kV tap)
Current Ranges (auto)		0 - 100µA / 0.1 – 10mA		0 - 1000µA, 0.1 – 100mA
Voltage & Current Measurement Accuracy		± 1.5% of Reading ± 0.2% F.S.		
Voltage Resolution		100V		
Current Resolution		0.1µA		
Voltage Divider Location		Internal or External		External
Partial Discharge		n/a		≤10pC at <30kV ≤5pC at <60kV*
Phase Angle		± 10°		
Input		90 – 265VAC, 50/60Hz		
Duty Cycle		5min ON / 5min OFF, repeated maximum of 6 times, then OFF for 2hrs		
Dimensions (W x D x H)	Controller	20in x 14in x 20in (50cm x 35cm x 51 cm)		
	Bonnet	12in x 11in x 12in (31cm x 28cm x 31cm)	14in x 12in x 14in (36cm x 31cm x 36cm)	17in x 14in x 32in (43cm x 36cm x 81cm)
Weight	Controller	35lbs (16kg)		
	Bonnet	30lbs (14kg)	80lbs (37kg)	135lbs (62kg)
Safety Features		Emergency Stop Visual Warning Indicators External Interlock Audible Warning Indicator		Hand Operated Interlock Switch (optional) External Warning Lamp (optional) Foot Operated Interlock Switch (optional)
Display		7" TFT , 800 x 480, Color Touch Screen		
Interfaces		USB 2.0 for Memory Stick		
Output Data Format		CSV		
Calibration Interval		1 year recommended		
ECCN: 3A992.A		HTS: 9030.39.0100		

Notes: The partial discharge level is inherent to the equipment itself without considering possible external radiated interference from the customer's dedicated mains power supply or ground noise.
 ≤5pC at <60kV Optional

	Electronic Components		High Voltage Components	
	Temperature	Humidity (r.h. non-condensing)	Temperature	Humidity (r.h. non-condensing)
Operation	-10°C ... +50°C	5 ... 95%	-10°C ... +50°C	5 ... 95%
Storage	-20°C ... +70°C	5 ... 95%	-20°C ... +70°C	5 ... 95%

SCOPE OF SUPPLY

- Controller and HV transformer
- 25ft HV interconnect cable with clamp
- 25ft HV return cable
- 15ft HV ground cable
- 6ft input power cord
- Interlock plug
- Voltmeter probe (100kV and 120kV models)
- USB drive with digital copy of manual
- Calibration certificate

STANDARD OPTIONS

- HHDA13-280** – 120kV rated grounding stick
- HH-VMP60** – 60kV rated voltmeter probe for HVT-DI series
- HH-VMP120** – 120kV rated voltmeter probe for HVT-DI series
- HH-HS-DI** – Hand operated interlock switch
- HH-FS-DI** – Foot operated interlock switch
- HH-WARN-DI** – Safety Strobe light with magnetic base
- HH-CART-DI** – Hand cart to move HVT-DI controller and bonnet
- EXT-WARN-1** – One-year extended warranty

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