HIPOTRONICS

HVT-HD SERIES

Digital AC Benchtop Hipot Tester - High Duty Cycle – 30kV, 50kV - 2 kVA, 100kV - 5kVA

The HVT-HD Series Digital Benchtop AC Hipot is a modern solution for testing the insulation strength of electrical apparatus. Outfitted with a state-of-the-art digital interface and extensive safety features, the HVT-HD Series ensures simple operation, highly accurate results, and operator safety under all conditions. Designed with reliability and efficiency in mind, this model is ideal for production and manufacturing environments, where consistent performance and streamlined testing are essential. It comes equipped with a benchtop digital control section, a high-voltage transformer, an input line cord, an interconnecting cable, and ground leads.

The HVT-HD series meets ANSI/SIA A92.2, ANSI C37.20, IEC 62271-200, ASTM specifications. 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.





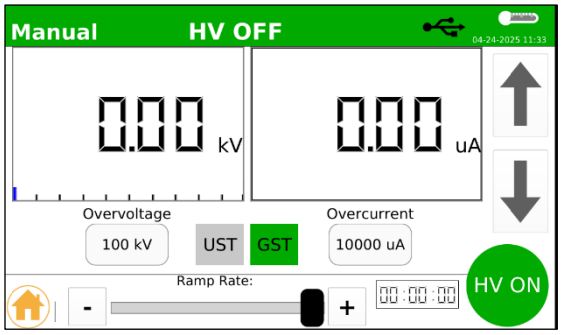
100kV Transformer



50kV Transformer



30kV Transformer



FEATURES

- ☑ **Lightweight/movable design**
- ☑ **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 internal memory
- ☑ **7” color touchscreen display** with adjustable brightness
- ☑ **Most accurate current measurement** and guard circuit designed to eliminate stray leakage currents
- ☑ **Meets a variety of standards including ANSI/SIA A92.2, ANSI C37.20, IEC 62271-200, ASTM 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
- ☑ **Improved Duty Cycle**
- ☑ **User-friendly** touchscreen interface
- ☑ **Easy to share results** via USB transfer or HIPODirect App
- ☑ **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

CE

HIPOTRONICS

TECHNICAL SPECIFICATIONS

Model #		30HVT-HD	50HVT-HD	100HVT-HD
System Output	Voltage	0.4 - 30kV	0.4 - 50kV	1 – 100kV
	Frequency	50/60Hz		
	Current	66mA	40mA	50mA (100kV tap) 100mA (50kV tap)
Current Ranges (auto)		0 -100µA / 0.1 –66mA	0 -100µA / 0.1 –40mA	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	Internal	External
Power		2kVA	2kVA	Capacitive/Inductive = 5kVA, Resistive = 1.2kVA
Partial Discharge		N/A	N/A	≤5pC at <60kV*
Phase Angle		± 10°		
Input		90 – 265VAC, 50/60Hz		
Duty Cycle		<0.5kVA: 2hr/1hr ON/OFF 0.5-1.4KVA: 30min/1hr ON/OFF 1.5-2KVA: 15min/1hr ON/OFF	<0.5kVA: 2hr/1hr ON/OFF 0.5-1.4KVA: 30min/1hr ON/OFF 1.5-2KVA: 15min/1hr ON/OFF	0-2.5KVA: 1hr/1hr ON/OFF 2.5-5KVA: 15min/1hr ON/OFF
Dimensions (W x D x H)	Controller	17in x 21in x 8in (43cm x 52cm x 20cm)	17in x 21in x 8in (43cm x 52cm x 20cm)	17in x 21in x 8in (43cm x 52cm x 20cm)
	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 (44cm x 37cm x 81cm)
Weight	Controller	35lbs (16kg)	35lbs (16kg)	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, 1024x600, 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.*

	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)

Capacitive Stylus

Calibration Certificate

STANDARD OPTIONS

HHDA13-280 – 120kV rated grounding stick

HH-VMP60 – 60kV rated voltmeter probe for HVT series

HH-VMP120 – 120kV rated voltmeter probe for HVT series

HH-700-HS – Hand operated interlock switch

HH-700-FS – Foot operated interlock switch

HH-WARN-HV – Safety Strobe light with magnetic base

EXT-WARN-1 – One-year extended warranty

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Hipotronics, Inc. tel: + 1 845 279 9245 | fax: + 1 845 279 2467 | email: sales@hipotronics.com

Hipotronics has a policy of continuous product improvement. We therefore reserve the right to change design and specification without notice.