

Arrester/Leakage Testers

Hi-Test[®]

Arrester/Leakage Testers

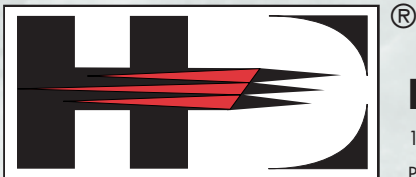


DESCRIPTION

The Hi-Test family of Arrester/Leakage Testers are fully portable and easy to use. They are current limited high voltage testers that can be used for safe and non-destructive testing of arresters, insulators and a wide variety of other parts and materials. They identify faulty arresters, assist in reducing line losses and reduce customer complaints. Non-visible failures of surge arresters are the source of operational problems that are difficult to locate in the field and costly to utility companies. Surge arresters are subject to both thermal and moisture problems which can produce gradual failures over time with no accompanying external visual evidence. **Radio frequency interference, television interference and blinking light complaints are all common symptoms of non-visible failures on distribution circuits.**

BENEFITS

- Find non-visible defects in arresters safely and conveniently
- Test MOV, Silicon Carbide and combination arresters for shorts and sparkover voltage
- Test bell type, distribution class polymer and cross arm pin insulators within the voltage range of the units, as well as fuses, transformer bushings and tank lids by imposing voltage and measuring the leakage current
- Use in the field and in the shop
- A fully portable and easy-to-use solution for safe and non-destructive testing of arresters
- Stretch your materials budget by testing arresters and insulators for re-use potential
- Increase quality assurance by randomly testing new material purchases
- Ideal for transformer rebuild shops and maintenance yards
- Non-destructive testing makes it extremely valuable
- Trouble shoot service calls and RFI/TVI complaints in the field caused by non-visible partial shorts in arresters
- Use in training programs to demonstrate the function of arresters and other materials as they respond to increasing voltage



HD ELECTRIC COMPANY

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FEATURES

- Three models test all types of arresters up to 25kV class
- Easy-to-read LED's
- Voltage and current displayed
- Lightweight
- Auto-shutoff
- Pivoting handle & belt clip for portability and hands free use
- Powered by a 12 VDC rechargeable, sealed lead-acid battery
- Charges overnight from a 120 VAC or 220 VAC outlet (appropriate charger required)
- Operates approximately 3 to 5 days on a single charge

Included with each instrument:

- Test leads and static ground cord
- Internal rechargeable battery
- Wall storage rack
- 120 VAC charging adapter
- Instruction manual

OPERATION

The Hi-Test Arrester/Leakage Tester has two test leads which, when connected to the top and bottom of the arrester, enables the user to increase the DC voltage that is being applied to the arrester. The user can then measure the exact voltage at which the arrester conducts. The unit will display both the maximum voltage an arrester will support at full conduction and the current leakage at any voltage imposed on the arrester. Both the applied voltage and current leakage are displayed on bright, easy-to-read LED displays. The voltage is displayed in DC and equivalent AC increments. The current is displayed on a 50 microamp LED meter scaled in 5 microamp steps with convenient "full on" display when current leakage exceeds 50 microamps. The Hi-Test Arrester/Leakage Tester can also be used to test insulators, fuses, transformer bushings and tank lids.

VOLTAGE RATINGS

Product	DC Output Voltage Range	For Arrester Classes Up To	Common Arrester Ratings That Can Be Tested	Voltage Resolution
HiSat-5	0 - 8.5kV	5kVAC	3kV	250 VDC
HiSat-15	0 - 21kV	15kVAC	3, 6, 9, 10*, 12*, 15*kV	700 VDC
HiSat-25	0 - 30kV	25kVAC	3, 6, 9, 10, 12, 15, 18, 21*, 24*kV	1000 VDC

*Tests for sparkover voltage on MOV types only.

ORDERING INFORMATION

HiSat-5	Portable Arrester/Leakage Tester for use on arrester classes up to 5kVAC Weight: 4.8 lbs. (2.18 kg) Dimensions: 12" x 5" x 8" (31 cm x 13 cm x 20 cm)
HiSat-15	Portable Arrester/Leakage Tester for use on arrester classes up to 15kVAC Weight: 4.8 lbs. (2.18 kg) Dimensions: 12" x 5" x 8" (31 cm x 13 cm x 20 cm)
HiSat-25	Portable Arrester/Leakage Tester for use on arrester classes up to 25kVAC Weight: 4.8 lbs. (2.18 kg) Dimensions: 12" x 5" x 8" (31 cm x 13 cm x 20 cm)
075-02000-12V	12 VDC rechargeable, sealed lead-acid battery for HiSat units
025-02070-120V	120 VAC battery charger adapter
050-02010-220P	Hardware Kit for 220 VAC adapter
025-02015-SUB	Red Hi-Voltage Probe Cable
025-02190-SUB	Black Ground Return Cable
025-02195-SUB	Black Static Ground Cable
050-02030-SET	Complete Arrester/Leakage Tester Cable Set
575-02012-SAT	Wall storage rack for HiSat units



Front panel of HiSat-25 unit



HiSat-25 testing a porcelain arrester



HiSat-25 testing a bell type insulator

* Due to a policy of continuous improvement, HD Electric Company reserves the right to change product designs and specifications without notice.

HD Electric Company products are available through HD sales representatives worldwide.

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