



Application

Every electrical equipment, apparatus or machines are provided with insulation between the live part and earth or between two or more different sections of live parts. This insulation is required to be tested at high voltage values as required by applicable standards. For electrical equipment, voltage withstand test at different levels is specified, which depends upon the working voltage of the equipment. H.V. Testers are compact, rugged and portable test sets used for DC dielectric breakdown testing. Typical applications include testing of transformers, switchgear, cables, capacitors, aerial motors platforms, hot sticks bucket bricks, vacuum bottles and other related equipment like vacuum interrupters, blankets, ropes, gloves, hydraulics hose, instruments transformers generators.

Description

H.V. testers are specifically designed for safe and accurate measurement of leakage current to evaluate insulation integrity. These testers are portable, one end ground test systems, ideal for H.V. testing. Accurate leakage measurements are ensured by placing the current meter in the return of the H.V. path. Many features which Tesca provides as standard are either offered by competitors as optional features or not at all. Years of Design, engineering and manufacturing experience have made H.V. testers the most durable, easily operated and the best designed sets in the industry.

Features

- Panel mounted controls & indicators with easy to read legend.
- Continuously variable output from zero to full voltage.
- Low end ground test.
- Multi range analogue kV meter and current meter.
- Fast acting overload circuit breaker.
- Zero start interlock.
- Indicators: Mains on, HT On/Off & Breakdown.

Personnel Safety

- Zero start interlock (operator must always raise voltage from zero. H.V. is switched on only when voltage control is brought to zero).

Note: Specifications are subject to change.

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- MCB-magnetic overload protection.
- Visual + Audio alarms.
- Overload circuit cut off.
- Over current protection: Protects the user and the test object excess current levels by shutting down the HV instantly. The overload sensitivity is adjustable to allow testing of various test loads.

Technical Specifications

Input	: 220 volts \pm 10 %, 50/60 hz ac single phase.
Output	: 0-50 kv, 15 ma dc peak. Polarity can be reversed. Ht end on insulator & other end at earth potential.
Rating	: 100 % - 10 minutes : 50 % - continuous.
Ht source	: air cooled epoxy resin cast ht transformer.
Output control	: manual control.
Metering	: analogue, linear scaled moving coil meters of 96 mm sq. kV meter : 0-25-50. mA meter : 0-7.5-15. Accuracy of measurement: \pm 4 % of full scale.
Ancillary	: MCB in input, press switches for ht on / off.
Alarms	: audio visual at breakdown.
Timer	: non indicating timer of 1-3-5 mins.
Indicators	: mains on, ht on, ht off, breakdown.
Trip	: 7.5-15 ma.
Construction	: two units: control + ht unit in sheet steel cabinets Powder coated with lifting handles.
Dimensions	: 465(L) x 300(B) x 270 mm(H)
Weight	: 10 kgs.

Optional

Testing leads.
Indicating timer of 0-999 secs.
External interlock.
Red beacon
Hooter