



LUMETRON HT-Series High Voltage Breakdown Test Sets



Dielectric Voltage Withstand Test or High Potential Test (HIPOT test) is a 100% production line test to verify the quality & electrical safety characteristics of products, as required by national & international safety regulatory agencies such as BIS, UL, CSA, VDE, BSI, DIN, IEC, etc. **LUMETRON HT Series High Voltage Test Sets** are designed to perform such tests. The equipment can be used to test Appliances, Wiring Accessories, Chokes, Transformers, Coils, Motors, Connectors, Cables, Electronic components, PCB's, Insulation materials like paper, film, varnish, paint, resin etc. Their rugged construction allows industrial as well as laboratory use. The equipment supplies a continuously variable output voltage. Provision is made for indication of breakdown voltage & leakage current. A voltmeter shows the level at which breakdown occurred. The level at which leakage current will trip off the output voltage can be adjusted between 10% to 100% of the current range.

The equipment are supplied with traceable calibration report & comprehensive users manual.

SAFETY : The output terminals & the instrument itself have been designed with safety of paramount importance. Several features & interlock controls ensure safe operation.

Features

- * Continuously variable output voltage adjustable from 0 to 100% of rated output.
- * Operates from 230 V, 50 Hz, single phase AC supply.
- * TRIP SET CALIBRATE mode to precisely set leakage current from 10% to 100% of rated current. In Calibrate mode, HT output is automatically switched off.
- * Electronic current sensing circuit monitors leakage current & trips at preset value giving a FAULT audible & visual alarm.
- * Independent HT switch to cut off output even when mains supply is on, for added safety.
- * Spring loaded safety probe exposes HT tip when manually retracted. Made of impact resistant, high insulation PVC, for easy handling & durability. Contains no external, exposed metallic parts.
- * Fully insulated crocodile clip on Earth terminal for extra protection.
- * Standard, square DIN sized analog panel meters for Voltage and Current indication.
- * 'FLASH TEST' mode for quick, continuous production level testing and 'ZERO RESET' mode for testing as per standards.
- * Breakdown voltage is retained on voltmeter after failure of device under test & the output HT is cut off.
- * OPTIONS : > Thumbwheel Preset Timer - 0 to 99 sec. > Isolation Transformer > Custom HT Probes

Specifications

MODEL	HT-3	HT-5	HT-3/5	HT-10
Output Voltage (AC)	0 ~ 3 kV	0 ~ 5 kV	0 ~ 3 & 0 ~ 5 kV	0 ~ 10 kV
Volts Accuracy	± 5 % of range	± 5 % of range	± 5 % of range	± 5 % of range
Trip Current Range	5 ~ 50 mA	5 ~ 50 mA	5 ~ 50 mA	1 ~ 10 mA
Current Accuracy	± 2.5 % of range	± 2.5 % of range	± 2.5 % of range	±2.5% of range
Size (W x D x H mm)	400 x 195 x 250	400 x 195 x 250	400 x 195 x 250	400 x 350 x 200
Weight (approx.)	18 kg	18.5 kg	19 kg	24 kg

COMMON SPECIFICATIONS

Metering	: Voltmeter, Analog, 96 mm square, DIN size.	: Ammeter, Analog, 72 mm square, DIN size.
Controls	: Mains On / Off HT Reset Push Button Trip Current Set knob Flash Test / Zero Reset selector Timer On / Off (for Timer option)	: HT On / Off Operate / Calibrate selector Output Voltage control knob Range Selector (Model HT-3/5 only) Thumb Wheel switch (for Timer option)
Indicators	: Mains On Fault (Audio & Visual)	: HT On Pass Indicator (for Timer Option)
Protection	: Electronic Current Sensing Trip Circuit Spring loaded safety retractable HT probe	: Mains Fuse Zero Reset Interlock
Supply	: 230 V AC, 50 Hz, single phase	

