

## DC Hipot Test Instrument Model M100DC

### Safe, Fast, Efficient

- Performs DC dielectric withstand test up to 5.5 KVDC at 10 milliamperes (5mA standard)
- Performs concurrent ground continuity test
- ARC and OVERCURRENT detection circuits
- Fast HV shutdown within 2 milliseconds
- Fast discharge of Device Under Test (DUT) upon shutdown
- Full compliance with UL, VDE, BSI, IEC, CSA, and other test standards

### Production/Quality Assurance Testing

- Fully Automatic test cycle
- detects and indicates the following:
  - Test Ready (Security Chassis Ground Sensed)
  - Test in Progress
  - Test Passed
  - Test Failed
- following test parameters easily preset via rear panel potentiometers:
  - voltage ramp
  - test time
  - test voltage
  - overcurrent trip point
- switch-selectable ramp & test time combinations
- arc detection circuit
- overcurrent detection circuit
- solid state HV generation and control system for reliability
- switchable "burn" feature permits destructive testing by maintaining output voltage, following failure, to the DUT throughout duration of preset test time
- can be interconnected with M25 Ground Continuity Test Instrument or any Rod-L AC Hipot Test Instrument to simplify multiple testing requirements



### Continuous Ground Continuity Monitoring

- monitors Ground Continuity of DUT before and during each Hipot Test
- senses for  $0.5\Omega$  (standard), at  $\approx 1.5$  VAC
- loss of safety ground connection during a test causes high voltage to shut down with both audible and visual failure indication
- inhibits application of high voltage if the security chassis ground is not secure

### Superior Safety Features

- front panel receptacle is rated to 8000 VAC
- front panel receptacle prevents direct operator exposure to high voltage during test
- shutdown within 2 milliseconds after dielectric breakdown, overcurrent, or ground continuity fault
- electronically controlled output voltage ramp rate circuit guarantees consistently smooth ramp
- visual (audible optional) indication of high voltage applied to DUT
- discharge circuit provides for rapid discharge of DUT following shutdown
- visual and audible indication of the following:
  - arc detection
  - excessive overcurrent flow
  - ground continuity test failure

# Specifications



<b>Output Voltage</b>	5500 VDC, user adjustable
<b>Output Voltage Ramp Rate</b>	50v/sec to 5000v/sec, user adjustable
<b>Output Current</b>	5mA (standard, 10mA maximum)
<b>Test Time</b>	1 second to 90 seconds, user adjustable
<b>Shutdown Time</b>	2 milliseconds
<b>Input Power Required</b>	115/230 VAC, 44-66 Hz, 300 watts maximum
<b>Dimensions</b>	16.75" x 5.25" x 13.25" (43 cm x 13 cm x 34 cm)
<b>Weight</b>	24 lbs (11 kg) Net 29 lbs (13 kg) Shipping
<b>Color</b>	Mint Grey/Olive Grey

## OPTIONS

- 01 — Remote Control (Digital)
- 05 — Hands Off Operation
- 06 — Rear Panel Lockout Cover
- 08 — Switch Selected Failure Points
- 09 — Low Current
- 10 — Audible Testing Tone
- 15 — Rack Mounting
- 19 — Remote Control (Analog & Digital)
- 20 — Ohms Sense
- 23 — Digital Panel Meters
- 24 — Blank Front Panel (Receptacle and/or Start)
- 29 — Two Switch-Selectable Voltage Scales
- 30 — Six Switch Selectable Test Parameters



415 322 0711  
Outside Calif. 800 548 6305  
FAX: 415 326 1993

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