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Find the *Rod-L M100DC* at our website: *Click HERE*

ROD-L ELECTRONICS, INC.

UL Listed

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 0.5Ω (standard), at ≈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

(over)

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Specifications

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

OPTIONALLY IEEE 488

ROD-L ELECTRONICS, INC.

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