

# DIELECTRIC WITHSTAND (HIPOT) TESTER

FAST



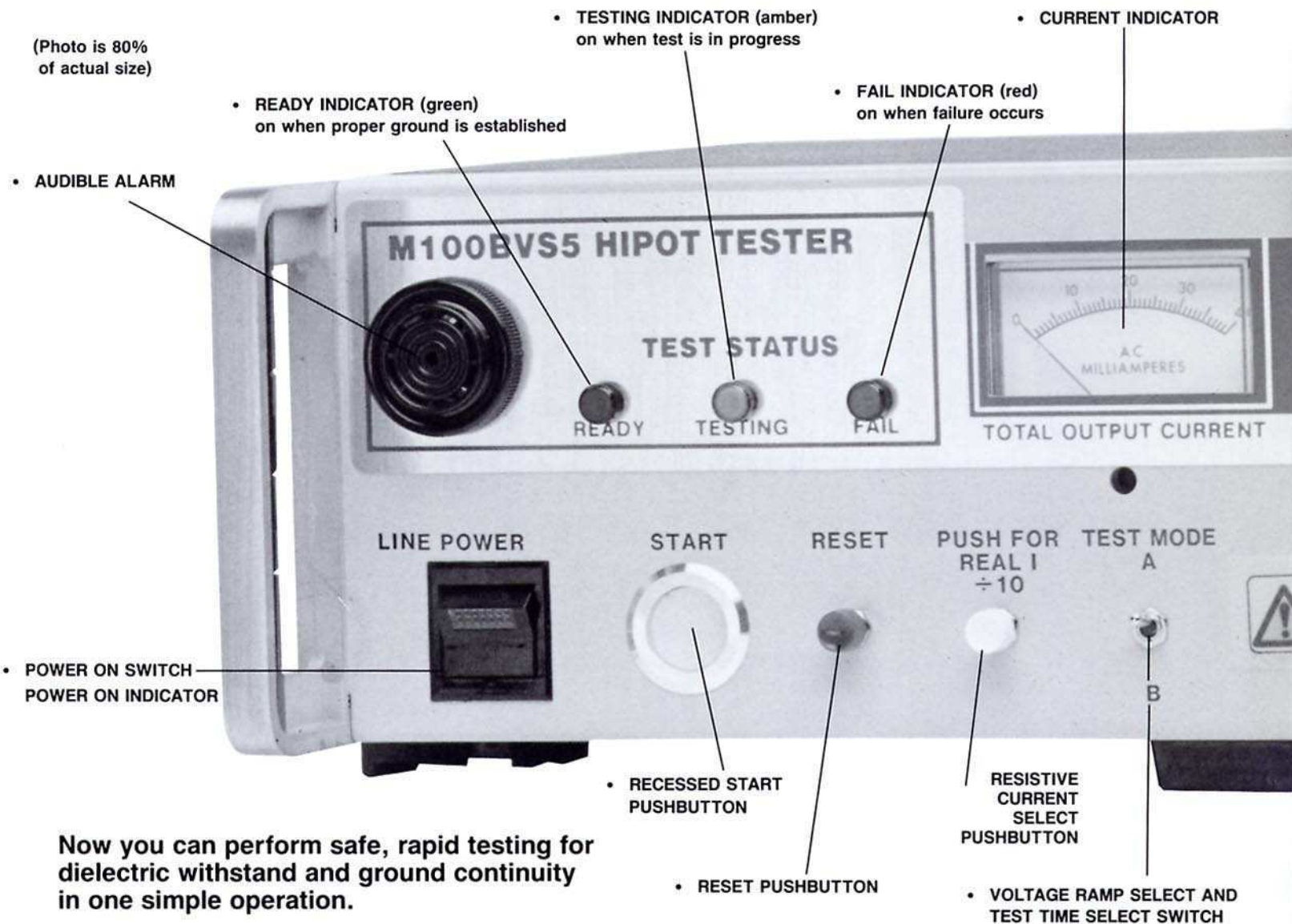
SAFE



EFFICIENT

Like no other hipot tester you've ever seen.

(Photo is 80% of actual size)



**Now you can perform safe, rapid testing for dielectric withstand and ground continuity in one simple operation.**

The ROD-L Hipot Testers are designed to perform the tests specified by U.L., I.E.C., C.S.A., V.D.E., F.C.C. and others. The hipot test is a potentially dangerous operation, therefore the ROD-L product line has been designed with emphasis on safety, on efficiency, and on speed with which the test can be made. ROD-L was the first hipot tester line to merit U.L. Listing (Since 1977, File E58530).

## Safe, Fast, Efficient

With a Rod-L Hipot Tester you get all these standard features:

- electronically controlled voltage rate-of-rise to ensure gradual, smooth and consistent rise time (eliminates harmful voltage spikes)
- electronically controlled voltage shutdown. Fast shutdown (2 ms) prevents harm to operator and protects the device under test (DUT)
- electronic, adjustable timing circuit to provide accurate, reliable test time (1 sec to 90 seconds)
- front panel receptacle, rated to withstand 8000 VAC, for direct plug-in of DUT or for plug-in of test fixture; provides maximum safety and dramatically reduces the time required to perform the test
- performs ground continuity test of .5 $\Omega$  resistance standard (.1 $\Omega$  available) at  $\approx$  1.5 VAC

- security chassis ground test to enhance operator safety
- completely solid state for reliability
- TTL logic allows optional computer interface
- rack mountable
- performs hipot test requirements specified by U.L., C.S.A., I.E.C., V.D.E., F.C.C., and others
- detects arcs as short as 10 microseconds duration

## Simple operation

The hipot tester applies the test voltage to the DUT for a duration of time preset from 1 second to 90 seconds. The DUT simply plugs into the front panel outlet, rather than being attached with clip leads. Clip leads can be used, however, for devices without a power cord.

Test limits for leakage current are preset by the user via a rear panel control. In the event of failure, automatic circuitry turns off the high voltage within 2 ms, lights the "failure" lamp, and sets off an audible alarm. This audible and visual alarm must be reset manually (meets U.L. requirements).

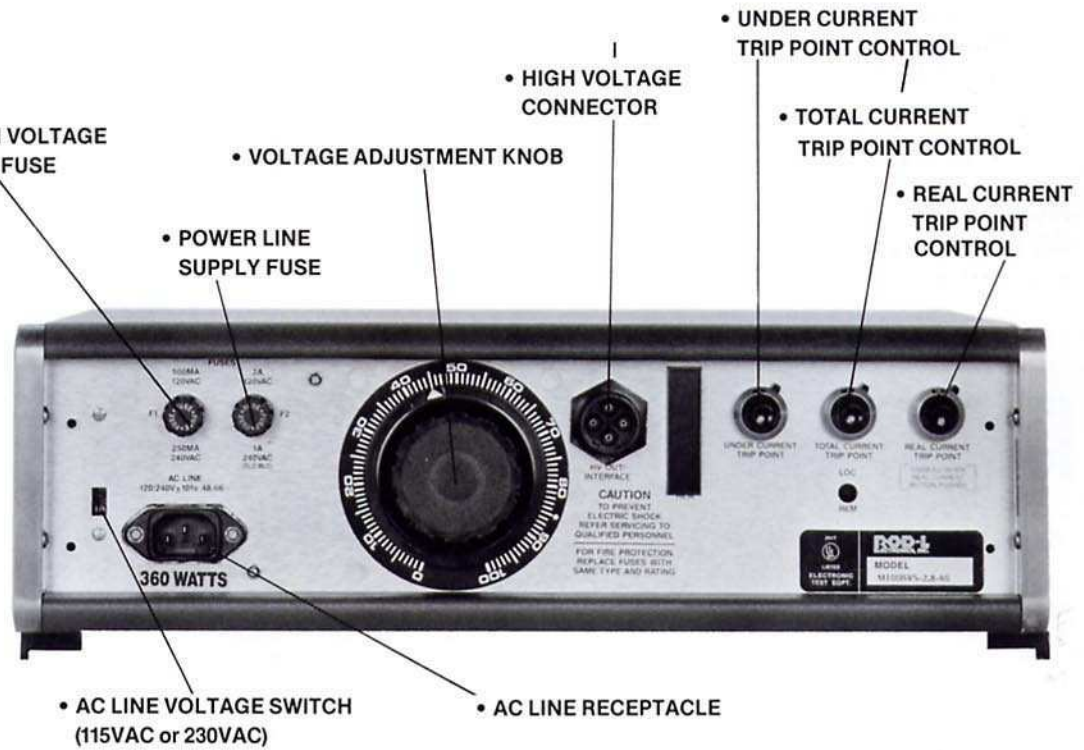
Use a Rod-L Hipot Tester for quality assurance testing, incoming inspection, and in-product development.



• VOLTAGE INDICATOR

• HIGH VOLTAGE CONNECTOR for safe, direct plug in

CHASSIS GROUND SENSE CABLE TERMINAL



• HIGH VOLTAGE LINE FUSE

• POWER LINE SUPPLY FUSE

• VOLTAGE ADJUSTMENT KNOB

• HIGH VOLTAGE CONNECTOR

• UNDER CURRENT TRIP POINT CONTROL

• TOTAL CURRENT TRIP POINT CONTROL

• REAL CURRENT TRIP POINT CONTROL

• AC LINE VOLTAGE SWITCH (115VAC or 230VAC)

• AC LINE RECEPTACLE

This is the rear view of the ROD-L Hipot Tester M100BVS5. Rear panel configuration is dependent on model.

## Voltage and Current Configurations

### M100 Series

Maximum Output Voltage	Maximum Current Limit				
	10mA	25mA	40mA	50mA	70mA
1000 VAC	●	●	●	●	●
1500 VAC	●	●	●	●	
2800 VAC	●	●	●		
5000 VAC	●	●			

### M500 Series

Maximum Output Voltage	Maximum Current Limit			
	100mA	200mA	350mA	500mA
1000 VAC	●	●	●	●
1500 VAC	●	●	●	
2800 VAC	●	●		
5000 VAC	●			

\* Other voltages available on request

BV Models have Real (Resistive) Current measurement (to null capacitive current)

### How to specify desired model:

Specify: **MODEL - VOLTAGE - CURRENT**

Example: **M100AVS5 - 2.8 - 40**

Where: **MODEL** is M100AVS5 or M100BVS5  
or M500AVS5 or M500BVS5

**VOLTAGE** is maximum output voltage in kilovolts, and  
**CURRENT** is maximum current limit in milliamperes

**NOW, a tester powerful enough to perform AC hipot tests on devices with capacitors or capacitor-type filters.**

**ROD-L**  
**ELECTRONICS, INC.**

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## SPECIFICATIONS

<b>Output Voltage</b>	User specified maximum—adjustable from 0 volts to full scale
<b>Output Voltage Ramp Time</b>	1 second to 30 seconds, user adjustable
<b>Output Current</b>	User specified maximum—adjustable trip point
<b>Test Time</b>	1 to 90 seconds, user adjustable
<b>Shutdown</b>	2 milliseconds
<b>Arc Detection</b>	Arc duration 10 microseconds or greater
<b>Input Power Required</b>	115/230 VAC, $\pm 10\%$ , 48-66 Hz, 300 watts maximum for M100, 500 watts maximum for M500
<b>Dimensions</b>	16.75" x 5.25" x 13.25" (43 cm x 13 cm x 34 cm)
<b>Weight</b>	M100—26 lbs (12 kg) Net 30 lbs (14 kg) Shipping M500—30 lbs (14 kg) Net 35 lbs (16 kg) Shipping
<b>Color</b>	Mint Grey/Black

### OPTIONS

- 01—Remote Control (Digital)
- 02—Front Panel Dwell Time Adjust
- 03—Front Panel Rise Time Adjust
- 05—Hands Off Operation
- 06—Rear Panel Lockout Cover
- 08—Switch Selectable Current Fail Points
- 10—Audible Testing Tone
- 15—Rack Mounting
- 16— $\div 10$  Front Panel Switch Current Trip Point (standard on BVS5 model)
- 18—Ohms Sense (Front Panel Receptacle is blanked out)
- 22—Front Panel Voltage Adjust
- 23—Digital Panel Meters
- 24—Blank Front Panel (Receptacle and/or Start)
- 27—"No Load" Trip Point Setting
- 28—Two-Switch Selectable Current Scales
- 29—Two-Switch Selectable Voltages

