



RIGEL 344

Defibrillator / Pacemaker Analyser / ECG Arrhythmia Simulator

THREE IN ONE TESTER

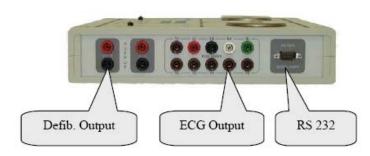
The **Rigel 344** combines the complete testing functions of a defibrillator tester, a pacemaker analyzer, and an ECG arrhythmia simulator into one compact, lightweight, and easy to use instrument.

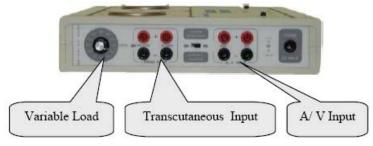
No other instrument delivers the performance testing power of the **Rigel 344**. It will test all defibrillators, all external pacemakers including transcutaneous and transvenous and all ECG equipment. The built-in user selectable test loads eliminate the need to carry extra modules to test the transcutaneous pacers.

The **Rigel 344** delivers unsurpassed biomedical testing capabilities in one instrument.

Features

- Compact, Lightweight and Rugged.
- ➢ Simple, Menu Driven Operation.
- ∠ Large, Easy to Read Display.
- Simultaneous Display of All Test Measurements.
- Dedicated Print key for Immediate Documentation.
- ∠ RS 232 Interface.
- Two-Year Warranty.





Test Functions:

Defibrillator Tester: Tests <u>All</u> Defibrillators - Semi -Automatic, Automatic, and those with Bi-Phasic Waveforms.

- ⇒ Measures: Energy, Peak Voltage, Peak Current, and Cardio Sync. Time.
- ⇒ Storage and Playback of Output Waveforms.

Pacemaker Analyzer: Tests <u>All</u> External Pacemakers – Transthoracic and Transvenous Pacers.

- ⇒ 50 and 60 Hz Immunity Tests.
- ⇒ Transthoracic Test Load: Fixed 50 Ohm or 12 User Selectable Loads to 1000-Ohms.
- ⇒ A / V Pacer Test Load: 500 Ohms.

ECG Simulator: Tests All ECG Equipment.

- ⇒ 12 lead ECG. User selectable Rates and Amplitudes.
- ⇒ Performance Waveforms: Sine, Square, Triangle & Pulse
- ⇒ 12 Arrthymia Waveforms

Technical Specifications

Defibrillator Analyzer:

Energy Measurement:

Load: 50 Ohms +/- 1%

Range (High): 900 Joules, Res. 1J. user selectable.

Resolution: 1 Joules Range (Low): 0 - 100 Resolution: 0.1 Joules.

Accuracy: +/- 2% of the Reading
Plus 1J for Hi Range or

Plus 0.5J for Low Range.

Maximum voltage: 5200 Maximum Current: 100 Amp (H)

Sync. Time: 0-250 ms.

Waveform Output:

High Level Output.

Real Time: Output 1000: 1 Stored: Discharge waveform expanded 200:1 and is repeated 8 seconds. It can be viewed through the paddles and through the ECG

Pacemaker Analyzer:

♦Transcutaneous:

Test Load: 50 Ohms (Fixed) and Variable 100 to 1000 Ohms

Current: 1 to 200 mA

Accuracy: +/- 5% +. 5 mA

Pulse Width: 0.5 to 80 ms.

Accuracy: +/- 1% +.1 ms.

Refractory: 20 - 500 ms

Accuracy: +/- 2 % or +10ms

Atrial and Ventricular:

Test Load: 500 Ohms +/-1% Current: 1 to 25 mA

Accuracy: +/- 5% +. 5 mA.

Pulse Rate: 30 to 800 ppm.

Pulse Width: 0.5 to 80 ms.

Accuracy: +/- 1% +.1 ms.

Refractory: 20 - 500 ms

Accuracy: +/- 2 % or +10ms Immunity Test: 50/60 Hz

ECG Arrhythmia Simulator:

ECG: Normal Sinus Rhythm

Rate: 30, 60, 90, 120, 240 BPM

Performance:

Sine, Square, Triangle and Pulse Rate: 0.5 1, 2, 10, 15, 20, 25, 40 Hz.

Arrhythmias:

VFBC, VFBF, VTAC, AFIB PVC, PVC1, PVC2, BGY, RBB AFIB, ATRFT, NSR.

Waveform Output:

12 Lead ECG and Paddle and HI level Output Jacks.

Power Requirements:

Two 9-Volt Alkaline Battery or AC adapter.

Dimensions:

 $(25.4 \times 27.9 \times 5.7 \text{ cm})$

Weight:

(1.9 Kg)

Accessories:

Standard:

AC Adapter, Universal Paddle Adapter, User Manual, Shrouded Banana Plugs (set of 2), Certificate of Calibration.

Optional:

Carrying Case, Paddle Adapters for various manufacturers. Please call Customer Service for part numbers.

Rigel Medical

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