

Rigel 344 - Technical Specification

Test Functions:

Defibrillator Tester: Tests All 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 All External Pacemakers – Transthoracic and Transvenous Pacers.

- ⇒ Measures: Amplitude, Rate, Pulse Width, Pulse Energy, Sensed and Paced Refractory Periods.
- ⇒ 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 Arrhythmia Waveforms

Defibrillator Analyzer:

Energy Measurement:

Load: 50 Ohms +/- 1%
Range (High): 900 Joules, Res. 1J.
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:

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
High Level Output.

Pacemaker Analyzer:

♦Transcutaneous:

Test Load: 50 Ohms (Fixed)
and Variable 100 to 1000 Ohms
user selectable.
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 x 27.9 x 5.7 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.