



Representante no Brasil



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RIGEL
MEDICAL

RIGEL 333

Multi - Parameter Patient Simulator

The **Rigel 333** is a powerful, comprehensive patient simulator with a number of unique features. It provides a full 12 lead ECG signal with more than 40 arrhythmias, dual blood pressure, respiration, and temperature. It also delivers square, sine, and a triangle performance waveforms.

Rigel 333 arrhythmia selections include pacemaker waveforms, ST segment changes, and both atrial and ventricular waveforms. The dual blood pressure and respiration waveforms are synchronized to the ECG and track with all arrhythmia selections. Multiple static and dynamic pressure readings are selectable as per apnea events.

Operation of the hand-held **Rigel 333** is simple via menu-driven tactile keys utilizing a large LCD display. The instrument may be either AC or battery operated.

Testing Features:

- 12 Lead ECG
- Over 40 Arrhythmias
- ECG Performance Waveforms
- Dual Blood Pressure
- Respiration
- Temperature

Operating Features:

- Easy to Use
- Small, Compact Size
- Menu Driven Operation
- Large LCD Display
- Tactile Keypad
- Battery or AC Operation



Specifications:

ECG Normal Sinus:

Rate: 30, 60, 70, 80, 90, 100, 120, 150, 180, 210, 240, 270, 300, 350 BPM

Amplitude: 0.15 to 5mV

High Level Output: 0.5 Volt/mV of Low Level (Lead II)

Performance Waveforms:

Sine, Triangle, Square

Rate: 0.1 to 100 Hz

0.1 to 1 Hz in 0.1 Hz increments

1 to 10 Hz in 1 Hz increments

10 to 100 Hz in 10 Hz increments

Tall T Wave

Test Waveform@ 70 BPM

Atrial Pacer

Ventricular Pacer*

Paced Rhythms - Variable from 0.1 to 2mS

R Wave detection - Variable form 10 to 120mS.

Pulse:

2mS Pulse of 1mV amp @ 4 sec intervals

Pacers

ST Segment Analysis:

ST Elevation and Depression

ST Depression Positive and Negative Slope

Myocardial Infarction

Arrhythmias:

Atrial

Ventricular

Blocks

Respiration:

Normal Physiological Simulation:

Base Line Impedance: 250, 500, 750, 100 Ohms

Delta Impedance: 0.1, 0.5, 1.0, 1.5 Ohms

Rates: 15, 30, 60, 120 BPM

Apnea: Off, Continuous, 12 Seconds and 32 Seconds Apnea-Bradycardia

Accuracy: Delta Impedance 5% of selection

Rate: 1% of selection

Blood Pressure:

Impedance: 350 Ohms
Excitation: 2 to 16 Volts
Sensitivity: 5uV/V/mmHg
Static: 0, 5, 10, 20, 25, 30, 40, 50, 100, 150, 200, 300 mmHg.
Dynamic: 50/10, 60/20, 70/30, 80/40, 100/60, 120/80 mmHg.
Accuracy: ($\pm 2\%$ FS. ± 1 mmHg)
Synchronized with all normal sinus rates
Physiologically track all arrhythmia selections.

Temperature:

Compatibility: YSI 400/700
25/37 Degree Centigrade
Accuracy: $\pm 1\%$ of reading

General:

Display: 16 Character 2 Line LCD
Key Pad: 8 tactile keys D F1, F2, F3, F4, >, <, ON/OFF, Menu
Output Connectors ECG: 10 Banana Jacks
High Level: 3.5mm Phono Jack
Pressure: 5 contact circular Din
Temperature: 3.5mm Stereo Jack
Physical Size: 140 x 90 x 38 mm
Case: High Impact Plastic
Weight: 285 gram

Power:

9 Volt Alkaline/AC adapter (Optional).
Battery Life 40 Hours Continuous.
Display Indicates Low Battery.

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