



OVERVIEW

The MiniSim 1000 (Advanced), is a full functional powerful, comprehensive patient simulator in a compact case. It is designed for testing the performance of patient monitoring instrumentation quickly and easily.

The microprocessor based instrument is menu driven via its tactile feel keypad and easy to follow LCD display. The MiniSim 1000 provides full 12 lead ECG simulation with 14 user selectable rates from 30 to 350 BPM and 14 user selectable amplitudes from 0.15 to 5 mV. Sine, Square, and Triangle performance waveforms are simulated with 14 user selectable rates from 0.1 to 100 Hz.

The MiniSim also simulates 45 different arrhythmias including Atrial, ventricular, tall T wave, ST elevation, ST depression, myocardial infarction, blocks, pulse, and pacemaker waveforms.

In addition, two invasive blood pressures are simulated with choice of 12 static pressures and 6 dynamic waveforms. Respiration is simulated with 4 rates. 4 base line impedance, and 4 delta impedance selections. Apnea may be off, continuous, and with either 12 or 32 second apnea bradycardia. Finally, temperature is available at either 25 or 37 degrees Centigrade. A 9-volt alkaline battery with a typical life of 40 continuous hours powers the MiniSim 1000 multi-parameter patient simulator. The instrument provides unmatched choices of parameter simulation in a truly compact instrument.

★ **Compact** ★ **Easy to Use** ★ **Best Value**

PRODUCT HIGHLIGHTS

- 12 Lead ECG
- 45 Arrhythmias
- ECG Performance waveforms
- 2 Blood Pressure
- Respiration / Apnea
- Temperature
- Easy to Use
- Small, Compact Size
- Menu driven operation
- Excellent Value

Ordering Information

Part No:

300-1.3 : MiniSim Advanced Multiparameter Patient Simulator with 12 lead ECG and arrhythmias

Standard Accessories:

- 301 : Hard Carrying Case
- 302 : AC Adapter
- 303-R1 : Unterminated Pressure Cables
- 327 : Temperature Cable YSI 700

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)

Test 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 from 10 to 120 ms
Pulse: 2mS Pulse of 1mV amp @ 4 sec intervals

Arrhythmias

ST Segment Analysis, ST Elevation and Depression, ST Depression Positive and Negative Slope, Myocardial Infarction, Atrial, Ventricular, Blocks

General

Size: 5½ x 3½ x 1½ inches (13.97 x 8.9 x 3.8 cm)
Weight: 10 Oz (0.28 kg)
Case: High Impact Plastic

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: (±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: ±1% of reading

Environmental:

Operating Temperature: 59° to 95° F (15° to 35° C)
Storage Temperature: 32° to 131° F (0° to 55° C)

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