

NIBP Simulators



Features - NIBP-1030

- ◆ NIBP, IBP, ECG, Temp, Arrhythmias, Respiration, Leak Detect & Much More
- ◆ Small, Hand-Held, Lightweight
- ◆ Self-Contained Package at Extremely Competitive Pricing
- ◆ Simple -- One Key Operation
- ◆ 0 to 500 mmHg Manometer
- ◆ $\pm 1\%$ of Reading Pressure Accuracy
- ◆ Digital Pressure Envelope Offset
- ◆ Total Pressure & BP Waveform Displays
- ◆ Adult, Neonatal, Hypertensive & Hypotensive Modes
- ◆ SpO₂ Ready--Compatible with MSP-2100 Module & FingerSims™
- ◆ Multiple Display Screens & Digit Sizes
- ◆ Flash Programmable, Field Upgradeable
- ◆ RS232 Interface
- ◆ Peak Pressure Detection with Easy Reset
- ◆ ECG Output with Full NSR Waveform
- ◆ Sinusoidal Respiration Simulation
- ◆ ECG Performance Test Waveforms
- ◆ Pace Waveform
- ◆ ECG Alarm Test
- ◆ Synchronized Invasive Blood Pressure Output
- ◆ Selectable IBP Sensitivity - 5 or 40 $\mu\text{V/V/mmHg}$
- ◆ Leak Rate Test
- ◆ ECG Arrhythmia Waveforms
- ◆ ECG Arrhythmia Sequence
- ◆ YSI 400 & 700 Simulation Temperature



NIBP-1030

The NIBP-1030 is the newest member of the NIBP-1000 family of high quality, low cost, high function microprocessor based NIBP simulators. It is designed to meet the demand for a small, easy to use unit with multiple features to fit your exact needs. Though small, this complete Multiparameter Simulator makes no compromise on providing true outputs. There is no other NIBP Simulator on the market that offers all the features of the NIBP-1030. The ability to provide offsets for various manufacturers NIBP's can only be found in units costing twice as much.

The graphic display not only allows you to see what is going on digitally, it also allows you to view a plot of the overall pressure or a close-up of the BP waveform.

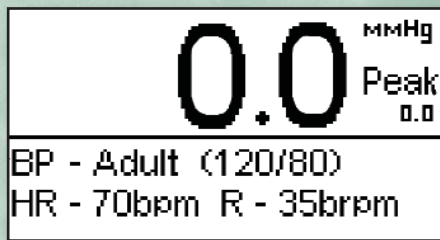
The Flash Memory allows for field upgrades with downloads from our website.

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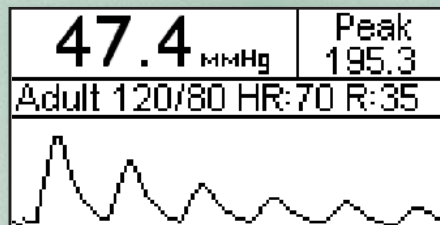
NIBP Simulator Series

Screen Views

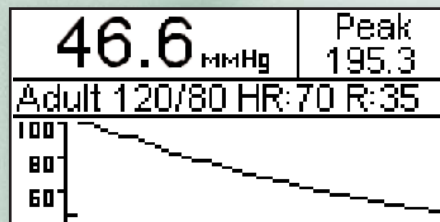
Main Display



Output Waveform Screen
(NOTE: The output Waveform is NOT Physiologically Correct)



Pressure Graph Screen



MODEL SUMMARY

- NIBP-1030** - Base Model
- NIBP-1030-B** - Base Model, built-in rechargeable battery
- NIBP-1030Kit** - NIBP-1030-B, soft carrying case and 5 adapters

MAIN TEST MODES:

- Adult 120/80
- Adult 120/80 w/Pace
- Adult High 190/120
- Adult Low 80/40
- Neonatal 70/40
- Alarm Test
- Arrhythmia Sequence
- Leak Test
- ✂

Other Modes/Features:

- Peak Detect
- ECG Performance Waves
- Individual Arrhythmias
- Synchronized Dynamic IBP
- Static IBP
- RS232

SPECIFICATIONS

Blood Pressure

- Range: ± 500 mmHg @ 20°C
- Accuracy: $\pm 1\%$ of Reading $\pm .5$ mmHg
- Rate: 80, 94 bpm (*synchronized to ECG*)
- Rate Accuracy: $\pm 1\%$

Invasive Blood Pressure

- Static Pressure: -10,0,20,40,50,60,80,100,150,160,200,240,250,300,320,400 mmHg
- Accuracy: $\pm (1\%$ Full Range ± 1 mmHg) or $\pm (2\%$ Setting ± 2 mmHg)
- Impedance: 300 ohms ($\pm 10\%$ Accuracy)
- Sensitivity: 5 or 40 μ V/V/mmHg

ECG NSR

- Rate: 30,60,120,240 BPM ($\pm 1\%$ Accuracy)
- Amplitude: 2.75 mV ($\pm 2\%$ @ Lead II Accuracy)

ECG Performance

- Sine Wave: 10,60,100 Hz
- Square Wave: 0.125,2.000 HZ
- Triangle Wave: 2.000 Hz
- Rate Accuracy: $\pm 1\%$
- Amplitude: 2.75 mV ($\pm 2\%$ @ Lead II Accuracy)

Pacemaker Waveforms

- Amplitude: 3 mV ($\pm 10\%$ Accuracy)
- Width: 6 ms ($\pm 5\%$ Accuracy)

Respiration

- Rate Accuracy: $\pm 1\%$
- Impedance: Delta 3.0 ohms ($\pm 10\%$ Accuracy)
- Baseline: 1000 ohms ($\pm 5\%$ Accuracy)

Temperature

- Settings: 0,24,30,37,40 C (± 0.1 C Accuracy) (32.0,75.2,86.0,98.6,104.0 F)
- Type: YSI Series 400 and 700



**NIBP-1030
with (optional)
MSP-2100 &
FingerSim™**

