

Basic Features

- ◆ Invasive Blood Pressure/ECG/ Respiration/Temp.
- ◆ Drop down choice screens list all options for parameters
- ◆ Special power up feature allows the user to choose to use default, last or custom settings
- ◆ Auto sequences for BPM, static-pressure levels & performance
- ◆ 10 universal patient lead connectors (Extra space between posts for the largest connectors)
- ◆ Mini-din connectors compatible w/standard BP cables, (Optional MiniDin-M to Din-F cable adapter available BC20-40736)
- ◆ % Battery life display & low battery indicator
- ◆ Powered by 2-9V batteries or optional battery eliminator
- ◆ Display backlight
- ◆ Full remote operation via RS232
- ◆ Flash programmable for upgrades
- ◆ Fetal/Maternal

Options

- ◆ Battery Eliminator
- ◆ SpO₂ option

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MULTI-PARAMETER PATIENT SIMULATOR

BC Biomedical PS-2110



The BC Biomedical Multi-Parameter Patient Simulator Series is the most comprehensive, easy to use family of simulators on the market. The SpO₂ simulation option makes this series a truly unique & versatile tool. The unit can produce a wide variety of ECG simulations. The user simply selects the parameters that match the desired

output. A pacemaker waveform may be simulated. A combination of fetal & maternal ECG waveforms may be simulated. The unit can simulate 12 different arrhythmias. Where applicable, both manual & automatic triggering of the waveform is available. Unit will generate Sine, Square & Triangular waveforms with adjustable amplitudes for performance testing. Auto mode is for auto sequencing through the range of waveforms. Respiration is simulated at 8 different rates plus apnea, with the ability to select from 2 Baseline Impedances, the Lead in which it will appear & the Delta Ohms of the signal. Both static & dynamic invasive pressures are simulated. In the static mode, the BP output is fixed at the selected level or sequenced through the list using the Automatic mode selection. In the Dynamic Mode, the selected waveform is synchronized with the ECG & provides a continuous output. The unit will simulate three temperatures. This is done by providing the necessary ohmic levels for both the YSI 400 & 700 Series thermistors. The unit provides a set of test terminals to quick check leads. It will determine if a lead has less than 1000 Ohms resistance. When used with the MSP-2100 external module & FingerSim family of SpO₂ finger simulators, the system will provide a pulse synchronized SpO₂ output for all NSR rates.

**BC Biomedical**
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BC BIOMEDICAL PS-2110

SPECIFICATIONS

ECG Functions

RATE	30, 60, 80, 120, 180, 240, 300 BPM
AMPLITUDE	0.5, 1.0, 1.5, 2.0 mV (Lead II)
AUTOMATIC MODE	Yes

Pacemaker Functions

WAVEFORMS	Asynchronous
PULSE HEIGHT	1 mV
PULSE WIDTH	1 ms

Fetal/Maternal

FETAL HEART RATE	120 BPM
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Arrhythmia Functions

ARRHYTHMIAS	12 Different
TRIGGERING	Manual and Automatic

ECG-Performance Functions

SINE	0.1, 0.5, 5, 10, 40, 50, 60, 100 Hz
SQUARE	0.125, 2 Hz
TRIANGLE	2 Hz
AMPLITUDE	0.5, 1.0, 1.5, 2.0 mV (Lead II)
AUTOMATIC MODE	Yes

Respiration

RATE	15, 20, 30, 40, 60, 80, 100, 120 BrPM
BASELINE IMPEDANCE	500, 1000 OHMS
LEAD	LA or LL
DELTA IMPEDANCE	0.1, 0.2, 0.5, 1.0, 2.0, 3.0 OHMS
APNEA	Continuous (0 BrPM)

Blood Pressure

STATIC	0, 20, 40, 80, 100, 200, 250, 300 mmHg
PRESSURE MODE	Automatic Static
DYNAMIC WAVEFORMS	6
SENSITIVITY	5 uV/V/mmHg & 40 uV/V/mmHg

Temperature

SIMULATION	YSI Series 400 & 700
SELECTIONS	30, 37, 40° C (86.0, 98.6, 104.0° F)

SpO₂ Simulation (Option)

RATE	30, 40, 45, 60, 80, 90, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300 BPM
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