

Basic Features

- ◆ ECG/Temperature
- ◆ 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
- ◆ Special programmable training modes

Options

- ◆ Battery Eliminator
- ◆ SpO₂ option

PATIENT SIMULATOR

BC Biomedical PS-2105



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. Seven different pacemaker waveforms may be simulated. Additionally, the width and amplitude of the pacer pulse may be selected. The unit can simulate 36 different arrhythmias. For ease of selection, they are arranged into four basic groups. Where applicable, both manual and automatic triggering of the waveform is available. The unit will generate Sine, Square, Triangular & Pulse waveform with adjustable amplitudes for performance testing. A special Automatic mode is available to auto sequence through the entire range of waveforms. The unit has a special training mode that aids users in practicing the identification of arrhythmias. A series of settings allows the feature to be customized to fit the exact training requirement. When used with the MSP-2100 external module and FingerSim family of SpO₂ finger simulators, the system will provide a pulse synchronized SpO₂ output for all NSR rates.

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BC BIOMEDICAL PS-2105

SPECIFICATIONS

ECG Functions

RATE	30, 40, 45, 60, 80, 90, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300 BPM
AMPLITUDE	0.5, 1.0, 1.5, 2.0 mV (Lead II)
S-T SEGMENT ELEVATION	± 0, .05, .1, .2, .3, .4, .5, .6, .7, .8 mV
ARTIFACTS	50 HZ, 60 HZ, Muscle, Baseline Wander, Respiration
QRS INTERVAL	Adult (80 ms) or Pediatric (40 ms)
AUTOMATIC MODE	Yes

Pacemaker Functions

WAVEFORMS	Atrial Pacer, Asynchronous, Non-Capture, Non-Function, Demand - Occasional, Demand - Frequent,
PULSE HEIGHT	1, 2, 5, 10 mV
PULSE WIDTH	0.1, 0.5, 1.0, 1.5, 2.0 ms

Arrhythmia Functions

ARRHYTHMIAS	36 Different
FOUR GENERAL GROUPS	Supraventricular, Premature, Ventricular & Condition
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, 2.5 Hz
PULSE	30, 60, 120 BPM; 60 ms Width
AMPLITUDE	0.5, 1.0, 1.5, 2.0 mV (Lead II)
AUTOMATIC MODE	Yes

Training

TIMER	Manual, 10, 15, 20, 25, 30 SEC
RANDOMIZER	Off, On
ARRHYTHMIAS	All, Subset

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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