MPS-2

Multiparameter Dual IBP Channel Patient Simulator

The MPS-2 Multiparameter Simulator just may be the best value you can find in a dual-channel invasive blood pressure simulator on today's market. This "little brother" to our unique AMPS-1modular multiparameter simulator comes in an even smaller package than the AMPS-1, and offers many similar features and capabilities in a fixed function, non-modular platform.

The MPS-2 Multiparameter Simulator features and capabilities include:

- Full 12-lead ECG with 9 independent outputs for each lead referenced
- ECG performance waveforms
- Respiration simulation
- Pacemaker waveforms
- Temperature simulation
- Arrhythmia simulation
- Automated protocols (user-programmable)
- Remote Control via RS232
- Large easy-to-read display
- Extremely easy to operate
- Single 9-volt battery operation or use with an external
 - AC power adapter for continuous simulation

At just $5.5'' \ge 3.6'' \ge 1.3''$ and weighing in at only 11.5 ounces, the MPS-2 is a featuredpacked multiparameter simulator in one of the smallest and lightest weight physical packages available. It's smaller, lighter, and more cost effective than any other similarly-featured multiparameter simulator on today's market.



MPS-2

Simply the best value available in a multiparameter simulator

MPS-2 – Performance Specifications

ECG General:

Full 12-Lead ECG with 9 independent outputs for each signal lead referenced to RL.
Output Impedances: 500, 1000, 1500, & 2000 ohms to RL
High Level Output: 0.5 V/mV of low level selection
Amplitude Accuracy: ± 2% 2 Hz Square Wave (Lead II)

Normal Sinus Rhythm:

Rates: 30, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300 BPM. Accuracy ± 1% Amplitudes (Lead II): 5mV, 4mV, 3mV, 2mV, 1mV, .5mV,.25mV ST Segments: 16 total – 8 elevated & 8 depressed ST Segment Levels (Lead II): -0.8 mV to +0.8 mV in 0.1 mV steps on Lead II, Neonatal Mode: ECG R wave width is reduced to 40ms

ECG Performance Testing:

Square Wave: 2 Hz Square Wave: 0.125 Hz Pulse: 80 ms @ 1 Hz Sine Waves: 0.5, 1, 10, 40, 50, 60, and 100 Hz. Triangle Wave: 2 Hz

ECG Artifacts:

50/60 Hz Muscle Respiration

Pacemaker:

Asynchronous @ 75 BPM Demand with frequent sinus beat Demand with occasional sinus beat A-V sequential Non-capture non-function Pulse: -100 mV to +100 mV (2, 4, 8, 10, 20, 50,100). Accuracy 5% Width: 0.1, 0.2, 0.5, 1.0, 2.0 ms. Accuracy 5%. Pulse Polarity: Positive or negative.

RS-232 Interface:

RS-232 interface to PC / Datrend ES601 Plus.

Temperature:

2 Temperature Channels (YSI 400 or YSI 700) Electronically Switched Temperature of 30, 35, 37, 38, 40°C.

Respiration:

Baseline Impedance: 500, 1000, 1500, 2000 ohms, LEADS I, II, III Impedance Variations: 3, 2, 1, 0.5, 0.2, 0 Ω Rates: 15, 20, 30, 40, 60, 80, 100, 120 and 0 rpm for APNEA Apnea Selections: 12, 22, 32 seconds, and continuous Lead selection LA or LL

Arrhythmia Selections:

Premature Atrial Contraction (PAC) Nodal Premature Nodal Contraction (PNC) Premature Ventricular Contraction (PVC) PVC1 Left Ventricular Focus PVC1 Early, Left Ventrical Focus PVC1 R-on-T, Left Ventrical Focus PVC2 Right Ventricular Focus PVC2 Early, Right Ventricular Focus PVC2 R-on-T, Right Ventricular Focus Multifocal PVCs

Conduction Defects:

First Degree Heart Block Third Degree Heart Block Left Bundle Branch Block Atrial Fibrillation (Coarse) PVCs 6/Minute PVCs 24/Minute Frequent Multifocal Bigeminy Pair PVCs (1 time event) Run 11 PVCs (1 time event) Ventricular Fibrillation (Coarse) Paroxysmal Atrial Tachycardia

Second Degree Heart Block Right Bundle Branch Block Trigeminy Atrial Fibrillation (Fine) PVCs 12/Minute Supraventricular Tachycardia Asystole Ventricular Tachycardia Run 5 PVCs (1 time event) Ventricular Fibrillation (Fine)

2 Blood Pressure Channels:

Electrically Isolated Channels Impedance: 300Ω Excitation: DC to 4000 Hz +/- 15VDynamic BP waveforms are synchronized with normal sinus rhythmrates and track arrhythmia selections. Respiration artifact can be selected on blood pressure channels Transducer Sensitivity: 5 or $40 \mu \text{V/V}/\text{mmHg}$ Calibrated Rate: 80 BPM normal sinus rhythm Static Levels: -10, -5, 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 240, 320, 400 mmHg Automatic Swan-Ganz (every 15 seconds) Manual Swan-Ganz, changes each time Enter is selected Static Level Stepping Dynamic Waveforms: 120/80, 120/0, 25/0, 25/10, 14/4, 15/10, 10/2

Automated Protocols:

10 protocols, programmable

All specifications subject to change without notice.



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