



MPS-2

Multiparameter Dual IBP Channel Patient Simulator

Simply the best value available in a multiparameter 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-1 modular 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)
- RS232 interface for connection to a PC or our

ES601 Plus Automated Electrical Safety & Performance Analyzer

- 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" x 3.6" x 1.3" and weighing in at only 11.5 ounces, the MPS-2 is a featured packed 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.

The MPS-2 is backed by the Datrend Systems 5-Year Warranty!



Viale Lombardia 88/90, 20131 Milano
Tel. +39.0228040728
Fax. +39.0226890665
www.tesi-biomed.it
info@tesi-biomed.it

MPS-2

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: $\pm 2\%$ 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 $\pm 1\%$
- 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 Ventricular Focus
- PVC1 R-on-T, Left Ventricular 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 | Second Degree Heart Block |
| Third Degree Heart Block | Right Bundle Branch Block |
| Left Bundle Branch Block | Trigeminy |
| Atrial Fibrillation (Coarse) | Atrial Fibrillation (Fine) |
| PVCs 6/Minute | PVCs 12/Minute |
| PVCs 24/Minute | Supraventricular Tachycardia |
| Frequent Multifocal | Asystole |
| Bigeminy | Ventricular Tachycardia |
| Pair PVCs (1 time event) | Run 5 PVCs (1 time event) |
| Run 11 PVCs (1 time event) | Ventricular Fibrillation (Fine) |
| Ventricular Fibrillation (Coarse) | |
| Paroxysmal Atrial Tachycardia | |

2 Blood Pressure Channels

- Electrically Isolated Channels
- Impedance: 300 Ω
- Excitation: DC to 4000 Hz +/- 15V
- Dynamic BP waveforms are synchronized with normal sinus rhythm
- rates and track arrhythmia selections.
- Respiration artifact can be selected on blood pressure channels
- Transducer Sensitivity: 5 or 40 $\mu\text{V}/\text{V}/\text{mmHg}$
- 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

Tutte le specifiche sono soggette a cambiamenti senza preavviso



1-3531 Jacombs Road Richmond, BC V6V 1Z8
CANADA
Phone: 1.604.291.7747
Toll Free (North America only): 1.800.667.6557
FAX: 1.604.294.2355
Email: customerservice@datrend.com
Website: www.datrend.com