



AccuSim-BP Handheld

NIBP Simulator



ES601 Plus
System Connectivity

For the most physiologically-correct
& accurate NIBP simulation...

Not many manufacturers of NIBP simulation devices can make the claim that they have worked as closely with the actual NIBP monitoring manufacturers, or at least not to the same level of involvement, that has resulted in the AccuSim NIBP simulation technology platform. Even fewer can make the claim that they have physiologically-correct waveforms in their NIBP simulations. And the smallest group would be those that can claim 0.5% of setting accuracy on dynamic NIBP simulations. But Datrend Systems can make all three of these claims relative to the AccuSim NIBP technology platform for NIBP simulation.

AccuSim-BP Handheld is the most portable model in Datrend's line of NIBP simulators. With a full complement of 7 Adult and 6 Neonatal BP presets, and fully adjustable pulse rate, pulse amplitude and BP envelope shift, AccuSim-BP Handheld provides more testing flexibility than other NIBP simulators. Major features of the AccuSim-BP Handheld NIBP Simulator include:

- BP Presets: 7 Adult and 6 Neonatal
- Built-In Adult Mandrel
- Adjustable Pulse Rate, Amplitude, BP Envelope Shift
- Autosequences
- User Defined Envelopes
- Preset Calibration Tables by Manufacturer (CalTables)
- Leak Test and Over Pressure Test: Automatic
- Internal Pressure Pump
- USB Port for Web-Based Upgrades
- RS232 for Remote Control
- Internal Li-Ion Rechargeable Battery
- Optional 12 Lead ECG Simulation with Invasive Pressure, Temperature & Respiration
- High Accuracy: +/- 0.5 mmHg
- Light Weight: 1.9 lbs (0.86 kg)
- Small Size: 2" High (51 mm)
- Exceptional value

Perhaps best of all, is the fact that the AccuSim-BP Handheld NIBP Simulator is a part of the Datrend ES601 Plus test automation family. This means that you can connect your AccuSim-BP Handheld NIBP Simulator to your ES601 Plus for totally automated testing of your medical devices, with storage of test results.

The AccuSim-BP Handheld is backed by the Datrend Systems 3-Year Warranty!

AccuSim-BP Handheld

AccuSim-BP NIBP CalTables™

Datascope Accutorr Plus
GE Medical Dash 4000
GE Medical Dinamap Pro
Philips Medical M3
Welch-Allyn Propaq Encore
Philips Medical VS1
Colin Medical
Criticare
CAS Medical
SunTech
(Please contact Datrend for the availability of other calibration tables)

BP Presets

Systolic/Diastolic (MAP):
ADULT: NEONATAL:
240/190 (213) 200/150 (169)
150/120 (129) 150/100 (119)
120/90 (99) 120/80 (95)
100/70 (79) 100/70 (82)
80/50 (59) 80/50 (62)
60/30 (39) 60/30 (42)
35/15 (21)

Accuracy:

< ± 0.5% of selected target value

Oscillometric Pulse

Pulse Amplitude Range: (0-150%)
Pulse Rise Time: 80 msec (minimum)
Pulse Rate Range: 15-330 bpm
Pulse Rate Accuracy: ±1 bpm, 15-200 bpm; ±2 bpm 201-330 bpm
Envelope Shift: +/- 50mmHg
Minimum Diastolic: 15mmHg
Maximum Systolic: 275mmHg

Displayed/Measured Parameters

Dynamic NIBP Cuff Pressure Waveform
Measurement Time: 0 to 180 seconds
Max. Inflation Pressure: 0 to 400mmHg
Inflation Time: 0 to 180 sec

Inflation Rate:

0 to 999.9 mmHg/sec
Minimum Pressure: 0 to 400 mmHg
Deflation Time: 0 to 180 sec
Deflation Rate: -0.0 to -999.9 mmHg/sec

Digital Manometer:

Pressure Range: 0.0 to 400.0 mmHg
Accuracy: ± 0.5 mmHg, traceable to NIST
Resolution: ± 0.1 mmHg

8200-002
AccuSim-BP
NIBP Simulator Kit



Leak Test:

Automatic Inflation
Automatic Timer
3 Variable Elapsed Time Settings
3 Variable Preset Pressure Settings
Pressure Drop: 0 to 400 mmHg
High Resolution Manometer: 0.0 to 400.0mmHg

Over-Pressure:

Automatically tests operation of the monitor's relief valve
Pop-Off Pressure: 0 to 400 mmHg
Instantaneous Pressure: 0 to 400 mmHg

Standard Accessories:

- Firmware:
- Autosequences
 - User Defined Envelopes (45)
 - Cal Tables™
- Hardware:
- Cuff Supports:
 - Plastic and Aluminum Cylinders
 - Adult (3.5" OD, 7.25" width)
 - Neonate (1.25" OD, 2.25" width)
 - Adapter Hoses:
Adapter hoses insert between the NIBP device, cuff and analyzer. These adapters are compatible with oscillometric NIBP monitors.
 - Male/Female Luer
 - Male/Female Clippard (GE Medical, Draeger/Siemens)
 - Colder/CPC (GE Medical, Protocol Systems)
 - OBAC Quick Release (Philips Medical)
 - Universal 5/32" I.D. Hose
 - Pressure Bulb Assembly
 - Self system leak test hose
 - Communication Ports:
 - 1 RS-232 (3rd Qtr 2010)
 - 1 USB Port
 - Other:
 - External Power Supply and Cord
 - Operation Manual
 - Internal Pump
 - Internal Battery

Display:

Non-Glare Graphic LCD
LED Backlight
Resolution: 128x64
Thumbwheel contrast control

Power:

100-240 VAC, 50 watts, 50-60 Hz,
Desktop Switcher
Output: 24VDC @ 2.1A, 6 foot cable
Safety Agency Approvals: UL, CE, TUV
Internal Battery: Lithium Ion (Li Ion)
Voltage: 1.6.5V
Capacity: 2.5A-Hr, 150 NIBP Simulations
Charge Time: 3.5 Hours

Weight/Dimensions:

1.9 pounds with internal battery
(0.86 kg)
4.25" Wide x 2" High x 7.5" Long
(10.8 x 5.1 x 19.1 cm)

Optional Accessories:

- Carry Case
- RS-232 cable



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