Features - NIBP-1040-BE

- NIBP, IBP, ECG, Temp, Arrhythmias, **Respiration, Leak Detect & Much More**
- Small, Hand-Held, Lightweight
- **Cardiac Output** ٢
- Fetal Maternal ٢
- Simple One Key Operation ٨
- ± 500 mmHg Manometer ٢
- **Digital Pressure Envelope Offset** ۲
- **Total Pressure & BP Waveform Displays** ٢
- Adult, Neonatal, Hypertensive & **Hypotensive Modes**
- SpO₂ Ready–Compatible with MSP-2100 Module & FingerSims™
- Multiple Display Screens & Digit Sizes
- Flash Programmable, Field Upgradeable ٢
- **Peak Pressure Detection with Easy Reset** ۲
- **ECG Output with Full NSR Waveform** ٢
- **Sinusoidal Respiration Simulation** ٢
- **ECG Performance Test Waveforms**
- **Pace Waveform** ٨
- **ECG Alarm Test** ٢
- Synchronized Invasive Blood **Pressure Output**
- Selectable IBP Sensitivity 5 or 40 µV/V/mmHg
- Leak Rate Test
- ECG Arrhythmia Waveforms
- ECG Arrhythmia Sequence
- **YSI 400 & 700 Simulation Temperature** ۲

BC Group International, Inc. 3081 Elm Point Industrial Dr. St. Charles, MO 63301 USA Phone: 314-638-3800 Toll Free: 1-888-223-6763 Fax: 314-638-3200 Email: sales@bcgroupintl.com Website: www.bcgroupintl.com

NIBP Simulator Series

BC Biomedical NIBP Series



NIBP-1040-BE

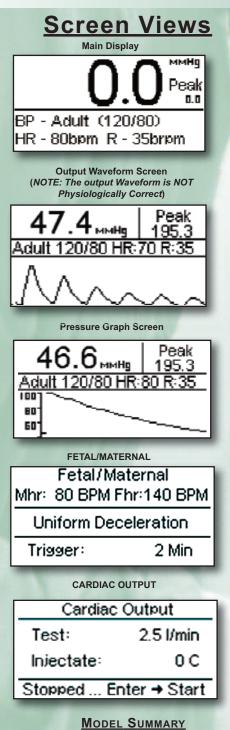
The NIBP-1040-BE is the newest member of the NIBP-1000 family of high quality, low cost, high function microprocessor-based NIBP simulators. The NIBP-1040-BE comes with the Cardiac Output and Fetal Maternal feature built-in. It is designed to meet the demand for a small, easy to use unit with multiple features to fit your exact needs. Though small, this complete Multiparameter Simulator makes no compromise on providing true outputs. There is no other NIBP Simulator on the market that offers all the features of the NIBP-1040-BE in this price range. The ability to provide offsets for various manufacturers NIBP'S can only be found in units costing twice as much.

The graphic display not only allows you to see what is going on digitally, it also allows you to view a plot of the overall pressure or a closeup of the BP waveform.

The Flash Memory allows for field upgrades with downloads from our website.



BC Biomedical NIBP Series



NIBP-1040Kit-E

- Includes MCO-2100, built-in rechargeable battery and Universal Patient Lead Connectors

Main Test Modes:

Adult 120/80 Adult 120/80 w/Pace Adult High 190/120 Adult Low 80/40 Neonatal 70/40 Alarm Test Arrhythmia Sequence Leak Test Manometer Cardiac Output Fetal Maternal

Other Modes/Features: Peak Detect

ECG Performance Waves Individual Arrhythmias Synchronized Dynamic IBP Static IBP RS232

SPECIFICATIONS

Blood Pressure Pressure Range:

Accuracy: Simulation Rate: Accuracy: ± 500 mmHg @ 20 °C ± (1% of Reading + 0.5 mmHg) 80, 94 BPM (synchronized to ECG) ±1%

120, 150, 160, 200, 240, 250, 300,

Invasive Blood Pressure Static Pressure: -10, -5, 0, 20, 40, 50, 60, 80, 100,

Accuracy:

Impedance: Excitation Range: Excitation Frequency: Sensitivity: 320, 400 mmHg ± (1% Full Range + 1 mmHg) or ± (2% Setting + 2 mmHg) 300 Ω (± 10% Accuracy) 2 to 16 Vrms

DC to 5 kHz 5 or 40 µV/V/mmHg

ECG NSR Rate:

Amplitude:

30, 60, 120, 240 BPM (± 1% Accuracy) 2.75 mV (± 2% @ Lead II Accuracy)

ECG Performance

Sine Wave: Square Wave: Triangle Wave: Rate Accuracy: Amplitude: 10, 60, 100 Hz 0.125, 2.000 Hz 2.000 Hz ± 1% 2.75 mV (± 2% @ Lead II Accuracy)

6 ms (± 5% Accuracy)

Pacemaker Waveforms Amplitude: 3 mV (± 10% Accuracy)

Amplitude: Width:

Respiration

Rate Accuracy: Impedance: Baseline: ± 1% Delta 3.0 Ω (± 10% Accuracy) 1000 Ω (± 5% Accuracy)

YSI Series 400 and 700

Temperature Settings: Type:

Fetal/Maternal Fetal heart rate: IUP Period:

FHR

60, 90, 120, 140, 150, 210, 240 BPM Single Contraction (Manual) 2, 3, 5, Min (AUTO)

0, 24, 30, 37, 40, 42 °C (± 0.1 °C Accuracy)

(During Contraction): Uniform Deceleration Early Deceleration Late Deceleration Uniform Acceleration

Cardiac Output

Injectate Temperature: Injectate Flow: Other Outputs:

0, 24 °C 2.5, 5.0, 10.0 L/MIN Faulty – Injectate Left-to-Right Shunt Calibrated Temperature Pulse

BC Biomedical NIBP Series

NIBP-1030-BE

Overview - NIBP-1030-BE

The NIBP-1000 Series is a Family of high quality, low cost, high function Microprocessor based NIBP Simulators. They are designed to meet the demand for a small, easy to use unit with multiple features ti fit your exact needs.

You have the option of operating by power cord or you can add the optional internal rechargeable NiMH Battery. You can perform hundreds of test on a fully charged battery.

Though small, this Family makes no compromise on providing true outputs. The optional ECG waveforms are full QRS and the respiration waveforms look real.

The graphic display not only allows you to see what is going on digitally, it also allows you to view a plot of the overall pressure or a close-up of the BP waveform.

All models have the ability to adjust the output depending on the manufactures algorithm. (operators choice)

The Flash Memory allows for field upgrades with downloads from our website.

NIBP-1030-BE NIBP, Peak Detect, Full Range Manometer, IBP, ECG, Pace, Temperature, Arrhythmias, Respiration, Leak Detect and Performance waveforms. (Extended ECG post optional)

NIBP-1020 NIBP, Peak Detect, Full Range Manometer, ECG, Pace Respiration and Performance waveforms.

NIBP-1010 NIBP, Peak Detect and Full Range Manometer



NIBP-1020

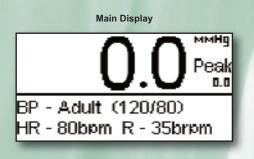


NIBP-1010

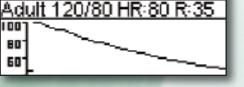


BC Biomedical NIBP Series

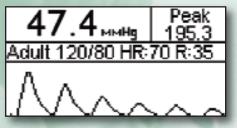
Screen Views







Output Pressure Display (NOTE: The output Waveform is NOT Physiologically Correct.)



SPECIFICATIONS

Blood Pressure

Pressure Range:± 500 mmHg @ 20 °CAccuracy:± (1% of Reading + 0.5 mmHg)Simulation Rate:80, 94 BPM (synchronized to ECG)Accuracy:±1%

ECG NSR

Rate: Amplitude: 30, 60, 120, 240 BPM; ± 1% 2.75 mV; ± 2% @ Lead II

ECG Performance

Sine Wave:10, 60, 100 Hz; ± 1%Square Wave:0.125, 2.000 Hz; ± 1%Triangle Wave:2.000 Hz; ± 1%

Pacemaker Waveforms

Amplitude: Width:

 3 mV; (± 10% Accuracy) 6 ms; (± 5% Accuracy)

Respiration

Impedance: line: Delta 3.0 Ω (± 10% Accuracy) Base-1000 Ω (± 5% Accuracy)

MODEL SUMMARY

| /AILABLE MODELS: | |
|------------------|--|
| BP-1010 | Basic unit |
| BP-1010-P | + Peak |
| BP-1010-BP | + Battery & peak |
| BP-1010-KIT | NIBP-1010-BP, 5 adapters & soft carrying case |
| BP-1020 | Basic unit with ECG |
| BP-1020-PA | + Peak & alarm |
| BP-1020-BPA | + Battery, peak & alarm |
| BP-1020-KIT | NIBP-1020-BPA, 5 adapters & soft carrying case |
| BP-1030 | Base unit |
| BP-1030-B | + built-in rechargeable battery |
| BP-1030-BE | + Universal Patient Lead Connectors |
| BP-1030Kit | NIBP-1030-B, soft carrying case and 5 adapters |
| BP-1030Kit-E | Same as above with Universal Patient Lead |
| | Connectors |
| BP-1040Kit-E | NIBP-1040-BE with Cardiac Output & Fetal |
| | Maternal, Universal Patient Lead Connectors |
| | soft carrying case and 5 adapters |
| | |

Optional Accessories

Soft Carrying Case Bulb Adapter DINAMAP/Critikon Adapter Quick Disconnect Adapter Luer Adapter Marquette Adapter Pulse Oximetry Module FingerSim™ Replacement Set

NIBP-1010 with (optional) MSP-2100 & FingerSim[™]

