

Blood Pressure Systems

NEW Advanced NIBP Auto Inflate Blood Pressure Monitor



Specialized Tools For Bioresearch

- Automatic Cuff Inflation
- Non-Invasive Tail Cuff
- Automatic Calculation of Systolic, Diastolic and Mean Blood Pressures
- Continuous Heart Rate Monitor
- Digital Display of all pressures and heart rate
- Analog Outputs for Pressure, Heart Rate and Cardiac Trace
- Continuous Measuring to memory
- Variable Pulse Gain and Respiration Filter
- Digital Signal Processing
- Printer Connection
- Serial connection to PC

The New Harvard Apparatus Advanced Blood Pressure Monitor uses a non-invasive cuff to measure blood pressure indirectly based upon the Korotkoff method, which is accurate to within 10 mm/Hg of a direct blood pressure measurement.

The main feature of this system is its ability to be able to perform continuous measurements of blood pressure as a completely stand alone system, using an internal pump to automatically inflate the cuff. The system can run in two automatic modes continuous and single, and features all the necessary outputs and connections to form a highly sophisticated blood pressure monitoring system.

In continuous mode the system will automatically measure, store and display blood pressure and heart rate at user specified intervals. The system can store 99 sets of measurements internally. These can be recalled and viewed using the built in display or a printer may be connected allowing the results to be printed as a table.

When running in single mode a single measurement only will be made and recorded each time the start key is pressed, after which the results will be stored in the internal memory.

Each time a set measurement is completed it is given a number so that it can be identified when it is recalled from the memory.

The memory stores all blood pressure measurements (systolic, diastolic, and mean), heart rate and the time since the previous measurement as well as the identifying number for each set of results.

An output may be configured representing the pressure as a voltage. The output can be set to represent systolic, diastolic or mean blood pressures and an offset and calibration function provided.

There are two outputs for the cardio side of the system; one output is the cardiac trace of the subject. The other output is a voltage representation of the heart rate, which may be configured to show continuous heart rate, or the heart rate from the last measurement. A calibration facility is provided on this output as well.

A serial connection is provided on the rear panel and this allows the Blood Pressure Monitor to have full two-way communications with a PC, using dedicated software.

Specifications

| | |
|--------------------------------------|---|
| Pressure Range | 0 to 300 mmHg Systolic 0 to 300 mmHg Diastolic 0 to 300 mmHg Mean |
| Heart Rate Range | 0 to 1000 bpm |
| Pressure Output | 0 to 300 mV equates to 0 to 300 mmHg |
| Heart Rate Output | 0 to 1000 mV equates to 0 to 1000 bpm |
| Cardiac Trace Output | 1 volt peak to peak |
| Continuous Mode Time Interval | 60 sec to 600 sec |
| Memory | 99 sets of results can be stored (1 Set = Exp No, Heart Rate, Systolic, Diastolic, Mean) |
| Connections | BNC Pressure Output Socket BNC Heart Rate Output Socket BNC Cardiac Trace Output Socket Centronix Printer Connection 9 Pin Serial Connection 9 Pin Remote Connection |
| Power | 110-115 Volts 60Hz or 220-230 Volts 50Hz, switchable |

| Catalog No. | \$ | Product |
|-------------|----|--|
| BS4 40-3000 | | RTBP Control Unit Only, 110V/230V Switchable |
| BS4 40-3002 | | RTBP Tail Cuff with Sensor for Mouse |
| BS4 40-3003 | | RTBP Tail Cuff with Sensor for 70-125 g |
| BS4 40-3004 | | RTBP Tail Cuff with Sensor for 100-150 g |
| BS4 40-3005 | | RTBP Tail Cuff with Sensor for 150-300 g |
| BS4 40-3006 | | RTBP Tail Cuff with Sensor for 350-500 g |
| BS4 40-3007 | | RTBP Tail Cuff with Sensor for 500-750 g |
| BS4 40-3008 | | RTBP Restrainer Standard for Mouse |
| BS4 40-3009 | | RTBP Restrainer Standard for 70-125 g |
| BS4 40-3010 | | RTBP Restrainer Standard for 100-150 g |
| BS4 40-3011 | | RTBP Restrainer Standard for 150-300 g |
| BS4 40-3012 | | RTBP Restrainer Standard for 350-500 g |
| BS4 40-3013 | | RTBP Restrainer Standard for 500-750 g |
| BS4 40-3014 | | RTBP Restrainer Heated for Mouse |
| BS4 40-3015 | | RTBP Restrainer Heated for 70-125 g |
| BS4 40-3016 | | RTBP Restrainer Heated for 100-150 g |
| BS4 40-3017 | | RTBP Restrainer Heated for 150-300 g |
| BS4 40-3018 | | RTBP Restrainer Heated for 350-500 g |
| BS4 40-3019 | | RTBP Restrainer Heated for 500-750 g |
| BS4 40-3020 | | RTBP Software Windows '98 |