BP-AccuGard ™

Animal Blood Pressure Monitor

- *For Exams and Surgery*
- *Manual and Automatic Operation*
- *Rechargeable Li-ion Battery*
- *Two Year Warranty*

Go wireless

View systolic, diastolic, MAP and heart rate on easy to read, lighted display and pressure waveforms and a trend graph using PC-AccuView software and your computer. One click selection of cuff size, repeat measurements and mean pressure calculations make exam room measurements quick and easy.

- *Small animal validated software*
- *Easy setup and use*
- *Programmable settings*
- *Back-lighted display*
- *Easy cuff size selection*
- *Silence alarm button*
- *Motion tolerant software*
- *Six animal cuffs with limb gauge*
- *Storage pouch*
- *Optional PC-AccuView™ software*
- *Optional Bluetooth hardware*

BP-AccuGard offers superior animal validated, motion tolerant technology for fast, accurate measurements in animals under anesthesia as small as 1.5 kg. Includes manual and automatic modes for diagnostic and surgical applications. Measure systolic, diastolic, MAP and heart rate and with a single key stroke, automatically calculate mean measurements over several readings for best accuracy. Use as a stand-alone blood pressure monitor or include the optional PC-AccuView™ software and Bluetooth wireless link to display measurements, real-time blood pressure waveforms and a trend graph on your computer screen. When the optional computer link is used, the PC-AccuView software stores all measurements for the surgical or diagnostic record. Files saved to the computer can be attached to patient records in most practice management programs. Reports can be printed from your computer or network printer or automatically attached to an E-mail message.

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DESCRIPTION

The BP-AccuGard is a digital oscillometric blood pressure monitor optimized for small animals. The device may be used in manual mode where the measurement cycle is started each time or in automatic mode where repeat measurements are taken at user defined intervals. Motion tolerant software reduces the compute time for awake animals without compromising accuracy.

OSCILLOMETRIC BLOOD PRESSURE

Oscillometric devices measure the oscillation of the vessel wall as the cuff is deflated. The AccuGard uses sophisticated algorithms to calculate the blood pressure measurements from these oscillations based on the pressure in the cuff. While all oscillometric devices have limitations, especially with patient movement and the relatively small size of arteries in small animals, the AccuGard software is successful in significantly reducing motion artifacts, resulting in fast, accurate measurements. Accurate measurements have been obtained on patients as small as 1.5 kg under anesthesia.

APPLICATIONS

√ The AccuGard can be used in manual mode to screen for hypertension in the exam room. Blood pressure should be recorded routinely for patients where hypertension is secondary to disease, for all patients with visual problems and all critically ill patients.

√ The AccuGard can be used in automatic mode to monitor blood pressure during surgery. The extensive configuration menu allows the selection of specific measurement cycles and alarm limits for systolic, diastolic, MAP and heart rate. Alarms can be easily silenced by pressing the silence alarm button on the AccuGard.

OSCILLOMETRIC BLOOD PRESSURE TECHNIQUE

It is essential that the cuff size be correct. Undersized cuffs may yield too high a pressure, whereas oversized cuffs yield too low a pressure. Cuffs provided with the AccuGard have a convenient limb gauge to facilitate cuff selection. Awake animals should be measured in a quiet, relaxed environment with the owner present if possible. Obtain at least three readings and exclude the first reading or readings that vary significantly. Mean calculation is obtained by selection on the AccuGard after configuring the device to reject specific readings in a series.

Represented by:

BLUETOOTH COMPUTER LINK

The optional Bluetooth hardware and PC-AccuView software provide a wireless connection between the AccuGard and your computer allowing the computer to function as a convenient patient monitor. The computer displays digital measurements as well as waveforms for the measurement cycle, pressure oscillations and a trend graph. Measurements appear simultaneously on the AccuGard. Bluetooth signals are omnidirectional and operate free of signal interference in the clinic. Range is reduced when transmission is through walls or between floors.

COMPUTER REQUIREMENTS

CPU: 800 MHz. PC desktop, laptop or tablet computer
MEMORY: Recommended 512 MB minimum
OPERATING SYSTEM: Windows 7, Vista or XP
AUDIO: Any Windows audio hardware and speakers
VIDEO: 32 MB video RAM, 64 MB recommended, resolution 1024 x 768, color profiling disabled.
PORTS: Available USB port
CD ROM Drive

SPECIFICATIONS

TYPE: Oscillometric blood pressure monitor with optional integral Bluetooth radio
POWER ADAPTOR: Input: 120/240 VAC, 50 or 60 Hz, Output: 5 VDC
CONSTRUCTION: High impact ABS-Polycarbonate
DIMENSIONS: Length: 6", Width: 4.75", Thickness: 1.75"
WEIGHT: 15 Oz.
SAFETY STANDARDS: IEC 601, AAMI EC-11
NIBP: Animal validated, automatic oscillometric with artifact reduction
A/D SAMPLING RATE: 75 Hz.
SAMPLE RESOLUTION: 12 bit
BATTERY: Rechargeable lithium-ion with patient isolated charger
BATTERY LIFE: >2 years continuous use
BATTERY USE BETWEEN CHARGES: Minimum 18 hours
WIRELESS OPERATING RADIUS: 100 meters line of sight

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