

BP Vet Doppler

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General Vet Products



For an accurate blood pressure measurement



The Doppler Vet BP is especially designed for a reliable and accurate blood pressure measurement on small animals, also on cats.



About blood pressure measurement in the veterinary medicine:

The symptoms of arterial hypertension are very feeble by animals at the beginning of the disease. In many cases, the diagnostic comes too late. Especially old animals and particularly cats are affected by hypertension but there are also a lot of indications on dogs.

A periodic check should be done by each old animal: blood analyse (detection of a kidney insufficiency) and a blood pressure measurement to detect hypertension. According current studies, up to 30% of the cats who suffer from chronic kidney insufficiency have systemic hypertension. Cerebral, ocular and severe renal troubles... can be the consequences of arterial hypertension.

It is also useful to screen blood pressure before or during an infusion: the arterial pressure can be a suggestive indicator of the animal's condition before an infusion. The veterinarian can adjust the infusion according to the results.

Monitoring with the Doppler:

The Doppler allows the flow detection in the arteria. The probe can be fixed on the animal paw or tail during an anaesthesia or during intensive care. the veterinarian will hear a sound signal reflecting heart rate and pulse.

Referential Values for Cats and Dogs

Values under 150/90 mm Hg will be considered as normal (under 170/110 mm Hg with PetMAP device).

Values between 150/90 mm Hg and 170/110 mm Hg could be pathological.

Extra examinations, clinical situation analysis and more measurement will be necessary to be able to make a diagnosis.

If you get values over 170/110 mm Hg in good conditions, this will be significant of hypertension in most cases (over 190/130 mm Hg with PetMAP device)

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Veterinary Doppler

How to measure blood pressure:

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1. Place cuff above the vessel to examine.
2. Shave the area where to position the probe or wet hairs with alcohol (underneath the tail or the carpal pad at the end of the paw or the radial artery).
3. Put some gel on the probe. Put in contact with the vessel to examine (without pressure because it would stop or reduce blood flow).
4. Move the probe slightly until you hear the best possible Doppler sound signal.
5. Maintain the probe with your finger or fix it on the skin with a sticking plaster.
6. Inflate the cuff with the sphygmomanometer to block the artery until you hear no sound animal.
7. Deflate slowly and progressively the cuff.
8. When you hear again the sound signal, it corresponds to the systolic pressure.
9. The diastolic pressure corresponds to a change of the Doppler's tonality. The detection of diastolic pressure needs experience as well as good operating conditions.
10. To validate the results, it is better to measure the pressure several times.

The Doppler set includes:

- 8 MHz probe with a large beam for a better flow detection, adapted for positioning on the animals tail or paw
- High sensibility for a clear signal
- Adjustable sound volume
- Battery charger
- Sphygmomanometer
- 4 cuffs in different sizes
- Headset
- Tube for gel

Technical features:

Ultrasonic frequency:	8 MHz
Audio output:	200mW
Frequency response:	300Hz - 6kHz
Battery :	3 x 1.2V, 800mAh +/- 6 hours
Operating time:	15 hours
Charging time:	15 hours
Dimensions:	175 x 80 x 25 mm 7" x 3" x 1"
Weight incl. battery:	300 g (11 oz.)
Headset acoustic output:	mini jack

- **Optional transesophageal doppler probe: a cardiac monitoring solution for your Doppler VetBP for use on anesthetized animals.**

Maintenance -

Do not expose unit to neither extreme heat nor extreme cold. Use in conditions ranging from 10 degrees C to 45 degrees C. Special care is necessary for the probe. Mechanical shock is to be avoided, and special precautions are needed since it can be damaged when hit by a hard surface. The probe can be cleaned by means of a soft tissue, dampened with water or weak alcohol. Do not scratch. Do not use organic solvents.

Operation of the Doppler Unit

For shipment and transportation, the probe could be disconnected from main unit. Push-pull probe connectors are situated on side of the main unit. The connectors are symmetrical and can be used in either socket.

The self latching mechanism of connectors protects them being pulled out by the cable. To disconnect always pull the metal part of the connector!

To turn on the device - press button ON, to turn off - press OFF. To increase volume - press up arrow
To decrease volume - press down arrow

The continuous green LED light indicates that the unit is turned on. The pulsating green light shows that the batteries should be recharged. When the unit is not used for 4 minutes or the battery is low it will turn off automatically. To charge plug the chargers mini jack to the main unit and connect to the mains. The red LED near connector should shine. While charging the use of the device is excluded. The full battery charging time is 15 hours. During charging the red light becomes weaker and disappears.

The signal of blood flow can be heard thanks to the integrated speaker.

The doctor can listen privately by plugging the headphones. The mini jack socket is used to plug the charger or the headphones.

