

petMAP™

Blood Pressure Measurement Device



A family of veterinary blood pressure devices tailored for your specific clinical needs



Advanced oscillometric BP measurement device designed for use in the broadest range of patient sizes and blood pressures



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petMAP™ is a technologically advanced oscillometric BP measurement device designed for use in the broadest range of patient sizes and blood pressures. Compare its features in the chart below:



Technology	Benefits
petMAP™ continuously uses Dual Oscillation Channel Analysis during each determination. High and low gain channels are analyzed simultaneously	BP measurement reliability and sensitivity are enhanced across the broadest range of patient sizes. Feature requires no user setting or adjustment
petMAP™ has PPO (petMAP Proprietary Optimization), allowing the user to specify the species (cat, dog) and measurement site (forearm, tail, hind foot).	PPO improves the correlation to Intra Arterial Pressures (IAP), the patient's true blood pressure.
petMAP™ calculates and automatically displays the NSV (Nominal Session Value) after each reading during a session.	NSV is a much more robust calculation than a simple average. NSV is most representative on the patient BP during a session, and is typically the charted value.
petMAP™ graphic's integral display displays the cuff pressure and the oscillation amplitude during a determination.	The user has the ability to visually assess the quality of each reading and to end the determination if appropriate. Severe motion artifact is visualized during the reading.
petMAP™ can display the last ten readings as both a tabular list as well as a graphical chart; values are "aged" from the time of power-up.	Individual determinations are available for charting. The user can view the graph and easily see if the values are consistent and if the session can be terminated.
petMAP™ is compact, handheld and battery operated.	Convenient for exam room use (hypertension screening), but also for trauma, anesthesia, procedures and even house calls.
petMAP™ includes seven cuffs of various sizes from 2 to 5.5 cm. More sizes available in option	The proper cuff size is critical to accurate BP measurement. petMAP™ provides the broadest cuff size range available.



Choose the right model to suit your needs!

	PetMAP™ graphic II	PetMAP™ g3	PetMAP™+ II Bluetooth®	PetMAP™ + II SpO ₂ Bluetooth®
Measured parameters	Blood pressure (systolic, diastolic and MAP) Heart rate	Blood pressure (systolic, diastolic and MAP) Heart rate Temperature (esophageal probe sold separately)	Blood pressure (systolic, diastolic and MAP) Heart rate Temperature ECG (optional module) Capnography (optional module)	Blood pressure (systolic, diastolic and MAP) Heart rate Temperature Pulse oxymetry ECG (optional module) Capnography (optional module)
Display	4.3" (10.9 cm) touchscreen	5" (12.7 cm) touchscreen		
Cuffs inflation	Automatic	Automatic and BP cycle time setting for automatically repeated BP measurements		
Power	4 AA Alkaline	4 AA NiMH and AC/DC adapter		
Included accessories	7 cuffs from 2 to 5.5 cm	7 cuffs from 2 to 5.5 cm	7 cuffs from 2 to 5.5 cm Esophageal probe for temperature	7 cuffs from 2 to 5.5 cm Esophageal probe for temperature SpO ₂ lingual and toe sensors

The options:

- Large size cuffs: 6.5 - 8 - 10 and 13 cm
- Protection cover
- Table and pole mounts



Table mount



Pole mount



Protective cover



More information about our petMAP



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Interpretation of measurement

The values provided by the **PetMAP™** are correlated with intra-arterial pressure measurements obtained simultaneously on slightly sedated animals in the laboratory. The reliability of the measurements has subsequently been validated by independent clinical studies on awoken animals (dogs, cats, and primates).

The interpretation of measurements performed with the **PetMAP™** on dogs and cats presented here is based on the recommendations of the 2018 ACVIM* consensus, advising that only devices that meet the established validation standards in conscious cats and dogs may be used.

The measurements must have been taken following the technical instructions described in the user's manual.



The conditions are also important:

- ✓ A 5–10-minute acclimatization period for the animal to the environment
- ✓ A calm measurement environment, without the presence of other animals
- ✓ The animal should not be sedated, and restraint should be gentle and minimal
- ✓ The animal should be in a stable position, and the measurement site should be as close to the heart level as possible
- ✓ Measurements should only be performed when the animal is calm and still
- ✓ It is recommended to perform a total of 5 to 7 measurements
- ✓ If the values show significant fluctuations, repeat the measurement until obtaining 5 to 7 consecutive coherent values
- ✓ For interpretation, use the nominal session value calculated by the device

Systolic pressure measured in dogs and cats:

< 120 mmHg	possible hypotension
120 – 140 mmHg	normal tension
140 – 160 mmHg	pre-hypertensive state
160 – 180 mmHg	hypertension
> 180 mmHg	severe hypertension

For reliable interpretation, these measurements must be correlated with the presence of clinical signs such as the possible presence of lesions on target organs (eyes, kidneys, heart) or neurological signs, which constitute an even greater risk when hypertension is characterized.

NB : The **PetMAP™** can be used on species other than dogs and cats, but the interpretation of measurements should be guided by appropriate recommendations.

(1) William Muir DVM, PhD, ACVA, ACVECC; The Ohio State University, Columbus, Ohio 43210

(2) Evaluation of oscillometric and Doppler ultrasonic devices for blood pressure measurements in anesthetized and conscious dogs; *Research in Veterinary Science* 97 (2014) 111–117

(3) Blood pressure monitoring in zoologically managed bonobos (*Pan paniscus*); *American Journal of Primatology*, 2023

(4) ACVIM consensus statement: Guidelines for the identification, evaluation, and management of systemic hypertension in dogs and cats; *Journal of Veterinary Internal Medicine*; 2018



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