SENTINEL is a blood pressure monitoring station that can incorporate up to three different types of blood pressure monitor.

Sentinel offers oscillometric (NIBP), invasive (direct) and Doppler monitoring systems in one unit. The modular design means that you can choose to have any combination of monitor types.

With the Sentinel Blood Pressure Monitor you get:

- Simple touch-screen interface
- Clear, easy to read screen
- Choice of measurement method
- Single NIBP, dual IBP and single Doppler modules
- Portable, easy to use unit
- PC software for data recording

Key features

**Main unit:**
- Battery or mains powered
- Rechargeable hi-energy NiMh batteries
- Small and lightweight
- Table-top or cage mountable

**NIBP:**
- Veterinary-specific algorithm
- Automatic or manual measurement modes
- Large animal range
- On-screen trend plotting
- Continuous display of cuff pressure
- Motion artefact rejection

**Dual IBP:**
- Simple to use
- Accurate and reliable
- Uses industry-standard sensors
- Use to monitor arterial or venous lines
- Clear on-screen BP trace

**Doppler:**
- Module specifications not yet finalised (future release)
Sentinel Blood Pressure Monitor

A new concept in blood pressure monitoring

The Sentinel blood pressure unit is a new concept in blood pressure monitoring. The unique idea is to have each type of monitoring method available in one unit so that the appropriate module can be used according to clinical requirements. For example, a critical care patient may be monitored using a direct blood pressure module and that same patient may subsequently be monitored in kennels or during a consultation using the NIBP or Doppler module. Similarly, having a Doppler module for monitoring avian, reptile or other exotic species where conventional pulse-monitoring techniques are difficult or unreliable means that the Sentinel unit will find use across the broad range of species encountered.

The modular nature of Sentinel offers a cost-effective way of addressing your varied blood pressure monitoring needs at a reduced cost compared to buying separate units.

An additional feature of Sentinel is that there is an option to have your results displayed and saved on a computer, via a USB or wireless link.

Output from the Sentinel monitor is compatible with our VitalMonitor/VitalStore software suite and will simply appear as a new monitoring device on the computer.

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Technical Specification

**NIBP Module:**
- Measurement method: Oscillometric
- BP range: Systolic: 40-265mmHg
- MAP: 27-222mmHg
- Diastolic: 20-200mmHg
- Pulse rate range: 25 to 300bpm
- Startup initialisation: 7 seconds
- Cuff sizes: Neonate #1 (3-6cm) to Neonate #5 (8-15cm)
- Sampling modes: Manual
- Automatic: 1-120 minute intervals
- Alarms: Systolic High/Low pressure alarm
  MAP High/Low pressure alarm

**IBP Module:**
- Measurement method: Direct/Invasive by arterial catheterisation
- Range: 0-300mmHg, 10 to 600 bpm
- Accuracy: +/- 1mmHg
- Modes: Pulsatile (arterial line)
  Static (CVP, CSF pressure)
- Sensor: Industry standard 5V/V/mmHg excitation
- Alarms: Heart rate High/Low alarm
  Systolic pressure High/Low alarm

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![Sentinel Blood Pressure Monitor](image)