

SurgiVet® V6004 Series Non-Invasive Blood Pressure Monitor



The SurgiVet® V6004® Series Non-Invasive Blood Pressure Monitor provides a reliable platform for your veterinary NIBP monitoring needs. It easily adapts to meet demanding NIBP needs, with options ranging from a built-in printer to SpO₂. The combination of reliability and flexibility makes the V6004 a practical starting point for your long-term NIBP monitoring needs.

For more information, visit www.surgivet.com.

VETERINARY

SurgiVet™



SurgiVet® V6004 Series Non-Invasive Blood Pressure Monitor

- Quick, reliable and accurate readings.
- Oscillometric NIBP technology.
- Easy-to-read LED display with adjustable brightness.
- Lightweight design with extended battery use.
- Flexibility to incorporate optional SpO₂ and built-in printer.
- Four NIBP cuffs are included and fit a variety of patients.

Technical Specifications

DISPLAY

- **NIBP: 3-digit red LED**
Systolic and Diastolic pressures: 0.40" (10.2 mm) high
Mean Arterial Pressure: 0.30" (7.6 mm) high
Update: 1 Hz
- **Pulse Rate: 3-digit red LED**
0.30" (7.6 mm) high
Update: 1 Hz
- **Interval: 2-digit red LED**
0.30" (7.6 mm) high
Indicates time (minutes) since last NIBP reading;
In AUTO mode, alternates with NIBP interval
- **SpO₂: 3-digit red LED (optional)**
0.40" (10.2 mm) high
Update: 1 Hz
- **Pulse Strength (optional)**
10-segment red LED bar graph, logarithmically scaled
Update: 60 Hz

INDICATORS

- **Alarms Silenced**, yellow LED: blinking = temporary [2-minute]
- **External Power**, green LED: blinking = battery charging
- **Patient Alarms**, red LED
- **System Alerts**, yellow LED
- **SENSOR**, yellow LED [SpO₂ signal unavailable]
- **Low Battery Symbol**, indicates battery life less than 30 minutes
- **Mode Indicator**: ON = small animal (less than 10 lbs.) setting

KEYS

ON/OFF, Alarm Set, Alarm Silence, Start, Cancel, Stat, Auto/Manual, Interval, Recall, Up Arrow, Down Arrow—menu navigation and selection; alarm limit and audio volume adjustment

NIBP

- **Range**
20 to 250 mmHg
- **NIBP Accuracy**
Meets or exceeds SP10-1992 standard for non-invasive pressure accuracy (AAMI Standard: ± 5 mmHg mean error, 8 mmHg standard deviation).

- **Cuff Pressure Accuracy**
 ± 3 mmHg or $\pm 2\%$, whichever is greater (0–330 mmHg)
- **Determination Time**
30 to 50 seconds typical (max. 120 seconds)
- **Interval Times**
1, 2, 2.5, 5, 10, 15, 20, 30, 45, 60, 90 minutes
- **Calibration:**
Factory calibrated
- **Inflation Pressure Range:**
50 to 300 mmHg
- **Default Inflation Pressure**
Large Animal (LA) mode: 175 mmHg
Small Animal (SA) mode: 200 mmHg
- **Alarm Ranges**
High: 15 to 285 mmHg (1 mmHg increments), and OFF
Low: 10 to 280 mmHg (1 mmHg increments), and OFF
- **Alarm Defaults**
SYS: High = 200 mmHg, Low = 90 mmHg
DIA: High = 105 mmHg, Low = 40 mmHg
MAP: High = 140 mmHg, Low = 50 mmHg

PULSE RATE

- **Range**
20 to 240 bpm (NIBP)
20 to 350 bpm (SpO₂)
- **Accuracy:**
 ± 1 bpm or $\pm 2\%$, whichever is greater
- **Averaging:**
8 seconds (oximetry only)
- **Alarm Ranges**
High: 20 to 350 bpm (1 bpm increments), and OFF
Low: 20 to 350 bpm (1 bpm increments), and OFF
- **Alarm Defaults:**
High = 150 bpm, Low = 45 bpm

SpO₂ (optional)

- **Range**
0 to 100% SpO₂ (functional)
- **Accuracy**
 ± 2 counts at 70 to 100%; below 70% unspecified
- **Averaging**
8 beats
- **Pulse Tone:**
Pitch proportional to SpO₂ value; volume adjustable or OFF

- **Maximum Age of Displayed Data:**
20 seconds
- **Calibration**
Factory calibrated
- **Alarm Ranges**
High: 50 to 100% (1% increments), and OFF
Low: 50 to 99% (1% increments), and OFF
- **Alarm Defaults:**
High = OFF, Low = 85%

AUDIBLE ALARMS

Volume adjustable, 45–85 dBA at 1 meter

INTEGRATED PRINTER (optional)

Text only; no graphics
Patient data (real-time) log, or trend tables

SERIAL (PRINTER OR PC) OUTPUT

- **RS232C** (DB-9 connector)
- **Data Format:** 19200 baud, 8 data bits, 1 stop bit, no parity

POWER REQUIREMENTS

- **AC Power Supply**
Output: 24 VDC, 1.5 A, with 4 kV isolation
Input: 105–125 V, 60 Hz, 90–110 V, 50 Hz (optional), or 208–252 V, 50/60 Hz (optional)
- **Battery:**
NiCad, 6 VDC. Fully-charged continuous operation life of 6 hrs; maximum charging time of 4 hrs; internally rechargeable, not user replaceable

DIMENSIONS

3.24" H x 8.5" W x 5.5" D
(8.2 cm H x 21.6 cm W x 14.0 cm D)

WEIGHT

3.5 lbs. (1.6 kg)

ENVIRONMENTAL

- **Operating Temperature**
32° F to 131° F [0° C to 55° C]
- **Storage Temperature**
–40° F to 158° F [–40° C to 70° C]
- **Relative Humidity** (non-condensing)
15–95% (operating)
10–95% (storage)

STANDARDS

EN60601-1: 1990

CATALOG NUMBERS

- **60040**-NIBP
- **60041**-NIBP and SpO₂
- **60045**-NIBP and Built-In Printer
- **60046**-NIBP, SpO₂, and Built-In Printer

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Please read the Instructions for Use supplied with the product for detailed instructions, warnings and cautions.

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