

SurgiVet® Advisor® Vital Signs Monitor



The high quality SurgiVet® Advisor® Vital Signs Monitor is the leading choice in veterinary multi-parameter monitoring. With its large, easy-to-read display and intuitive design, the Advisor® is available in multiple configurations. The standard parameters include ECG, digital pulse oximetry, heart rate, non-invasive blood pressure and a built-in battery. Optional parameters include End tidal CO₂, respiratory rate, 2-channel temperature, 2-channel invasive blood pressure and an integrated printer.

The SurgiVet® Advisor® features three monitoring modes that adjust ECG sensitivity, cuff inflation pressure and alarm limits that allow the monitor to be tailored to the physical requirement of the patient.

For more information, visit www.surgivet.com.

VETERINARY

SurgiVet™

Advisor® Vital Signs Monitor



1 Non-Invasive Blood Pressure (NIBP)

Competitively superior non-invasive blood pressure technology is clinically validated for veterinary use on both large and small animals. Provides accurate blood pressure readings to include difficult patients such as cats.

2 Electrocardiogram (ECG)

3 and 5 Lead monitoring capabilities with options to select lead specific viewing (I, II, III, V, aVR or aVF); amplification of lead signal (0.5, 1X, 2X, 4X) display; and 2-trace cascading.

3 Digital Pulse Oximetry (SpO₂)

Pulse Oximetry determines arterial oxygen saturation levels. Blood pulse detection using patented Serial Autocorrelation technology, or SAC, is an intuitive algorithm that provides superior performance. The unique algorithm is patented and included in all Advisor® monitors.

4 Sidestream Capnography (CO₂)

(Models V9201, V9203, V9204)
Capnography provides a means to assess ventilation, integrity of the airway and breathing circuit and cardiopulmonary function. End Tidal CO₂ is the single most important value to assess if an anesthetized patient is breathing correctly and maintaining proper circulation. *(optional parameter)*

5 Invasive Blood Pressure (IBP)

2 invasive pressure channels for measuring direct arterial pressure, central venous pressure and various other hemodynamic parameters. *(optional parameter)*

6 Temperature (TEMP)

2 temperature channels, adjustable for both Fahrenheit and Celsius, can be used for various measuring sites, such as esophageal or rectal. *(optional parameter)*

Clinical Support

The Veterinary Clinical Support team is dedicated to assisting customers with expert information pertaining to the technical and clinical aspect of the SurgiVet® Advisor® and our complete line of products. Each clinical support representative is a Certified Veterinary Technician with extensive experience and product knowledge.

Product Sales Support

Our USA Sales Team and Global Distribution Network are committed to customer satisfaction by providing in-service and product training.

Warranty Service

Warranty period for the SurgiVet® Advisor® is 2 years. Comprehensive warranty service and customer support is available from the Smiths Medical PM, Inc. Waukesha, Wisconsin headquarters.

Veterinary Data Logger

Enjoy the convenience, efficiency and accuracy associated with paperless documentation of your patient's vital signs. The easy-to-use Data Logger records real time trend data from the SurgiVet® Advisor®



Vital Signs Monitor onto an SD (Secure Digital) flash memory card, enabling users to transfer it to an electronic patient record, review it, print it or email it.

Data Logger is designed to support Microsoft® Excel® 2002, 2003 and 2007, which is a standard attachment format accepted in all commonly used practice management software systems.

This optional accessory to the SurgiVet® Advisor® saves patient specific data for numerous patients. With Data Logger, clinics can eliminate space-consuming paper records or print patient records from their PC printer. Data Logger reduces the potential for human error that can be associated with manually transcribing data.



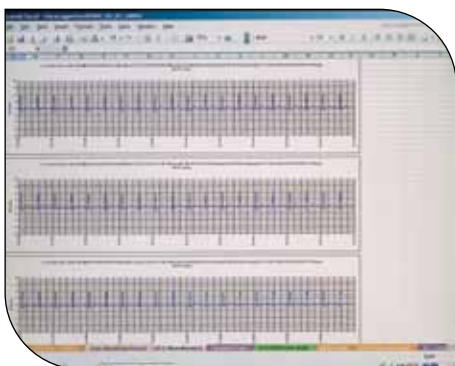
Features:

- Record trend data at regular intervals
- Capture a 30 second primary ECG waveform image
- Capture a screen image
- Upload data to a PC, supports various formats (pdf, xls)
- Transfer patient data to an electronic record
- Choice of either a Basic or Detailed Anesthesia Record
- Graphs and charts
- Easy to use step-by-step menu
- Warranty period is 1 year (U.S. only)

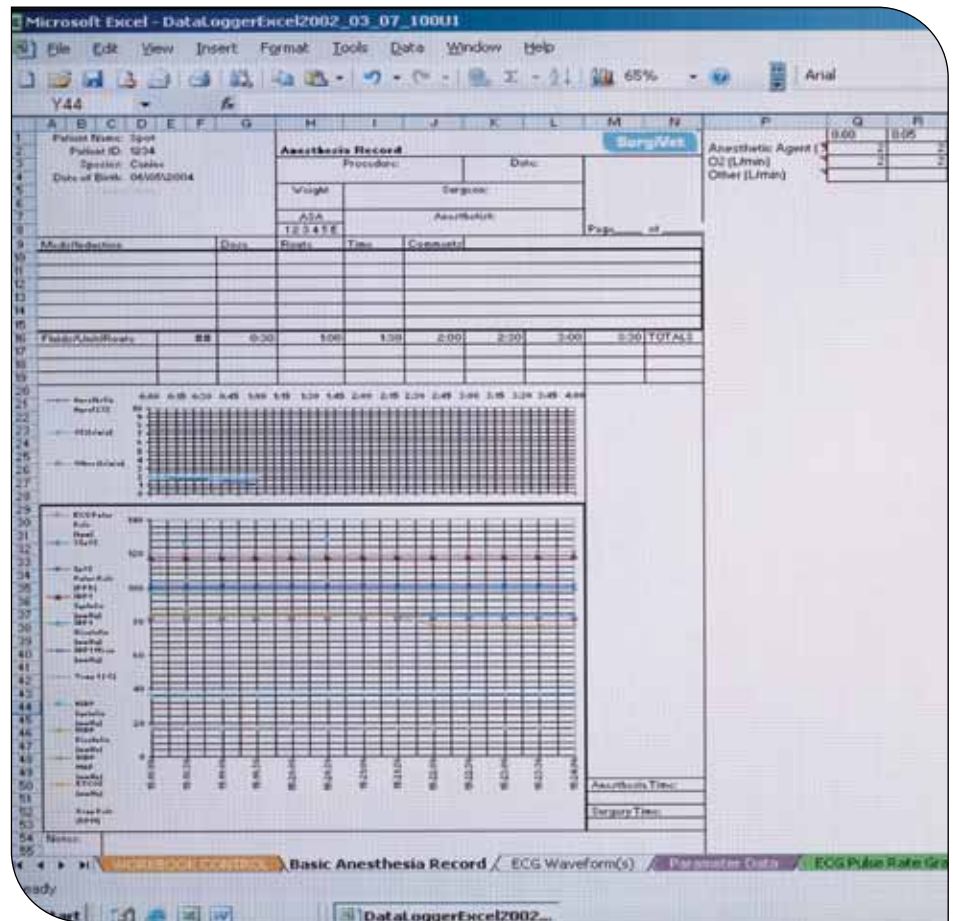
Portable, convenient and easy



Data transfer is portable, eliminating reliance on a cable or separate PC for the procedure area. Data Logger easily attaches to the back of the SurgiVet® Advisor®.



Capture a 30-second primary ECG waveform image.



Save and plot vital signs into a professional anesthesia record for improved convenience.

SurgiVet® Advisor® Vital Signs Monitor

Technical Specifications

DISPLAYS & CONTROLS

- **Main Display**
10.4" diagonal high-resolution active color LCD
Resolution = 640 x 480 pixels
- **Keys/User Controls**
ON/OFF key, Zero IBP key, NIBP key,
PRINT key, ALARM SILENCE key,
Rotary encoded push-button control knob

INDICATORS

- **AC Power**
Green LED w/power plug icon
- **Battery Power**
Green LED w/battery icon

ECG

- **Heart Rate Range**
20-350 bpm
- **Heart Rate Accuracy**
±2 bpm or ±2%, whichever is greater
- **QRS Detection Range**
Normal: 0.5 to 5 mV
High Sensitivity: 0.1 to 5 mV
- **Alarm Ranges Heart Rate**
20-350 bpm and OFF
- **Lead Selection**
I, II, or III (3-lead)
I, II, III, V, aVR, aVL, or aVF (5-lead)
- **Display Gain Settings**
X 0.5, X1, X2, X4

SpO₂ (DIGITAL OXIMETRY)

- **SpO₂ Range**
0-100% functional saturation
- **SpO₂ Accuracy**
±2% @ 70-100% <70% unspecified
- **Pulse Rate Range**
20 - 350 bpm
- **Pulse Rate Accuracy**
±2 bpm or ±2%, whichever is greater
- **SpO₂ Alarm Ranges**
50-100% and OFF

NIBP

- **Method of Measurement**
Oscillometric with step-down deflation
- **Blood Pressure Range**
Systolic: 40 to 265 mmHg
Mean Arterial (MAP): 27 to 222 mmHg
Diastolic: 20 to 200 mmHg
- **Pulse Rate Range**
25 to 300 bpm
- **Pulse Rate Accuracy**
25 - 250 bpm, ± 2% or 3 bpm, whichever is greater; 251 - 300 bpm, ± 5%; < 25 or > 300, unspecified
- **Inflation Pressure Settings**
Default Inflation Pressure:
200 mmHg - Cat
150 mmHg - Dog
120 mmHg - Horse



USA MADE

Adjustment Range:

- 60 to 280 mmHg - Cat
- 120 to 280 mmHg - Dog/Horse

• NIBP Clinical Accuracy

This algorithm is based upon the human algorithm that meets accuracy requirements of ANSI/AAMI SP10: 1992 and 2002

• AUTO Interval Times

- 1, 2, 3, 4, 5, 10, 15, 20, or 30 minutes
- 1, 2, 4, or 8 hours

• Alarm Range

In 1 mmHg steps, and OFF

• Altitude

Measurement accuracy is not affected by altitude

• Patient Safety

Internal operating software ensures that: Maximum cuff inflation time is limited to 75 seconds. Duration of blood pressure reading is limited to 120 seconds

Measurement Time:

30 to 50 seconds typical

SIDESTREAM CAPNOGRAPHY - optional

• Measurement

Non-Dispersive IR absorption

• Measurement Range

0 to 10% CO₂ STPD
(standard temperature pressure dry)

• Display Range

0 to 100 mmHg; 0 to 14 kPa; 0 to 10% CO₂

• Accuracy

± 2 mmHg or 4% of reading, whichever is greater (0 to 10% CO₂)

• N₂O Compensation

Selectable 40% (default = OFF)

• Averaging

4 breath

• Flow Rate

150 ml/min ±20 ml

• ETCO₂ Alarm Range

0 to 100 mmHg (1 mmHg steps), and OFF
0 to 14 kPa (0.1 kPa steps), and OFF
0 to 10.0% CO₂ (0.1% steps), and OFF

RESPIRATION RATE (CO₂) - optional

• Range

0 to 150 breaths/min (rpm)

• Accuracy

±1 rpm

• Averaging

4 breath average

• Alarm Range

3 to 120 rpm (1 rpm steps), and OFF

2 CHANNEL INVASIVE BLOOD PRESSURE - optional

• Measuring Range

-50 to 300 mmHg (after zeroing)

• Accuracy

±1 mmHg or ±1%, whichever is greater
(exclusive of transducer error)

• Alarm Limits

-50 to 300 mmHg in (1 mmHg steps)

• Pulse Rate (ART only)

Range: 20 to 350 bpm
Accuracy: ±2 bpm or ±2%, whichever is greater
Averaging: 8 seconds

2 CHANNEL TEMPERATURE - optional

• Range

0° to 50°C (32 to 122°F)

• Accuracy

±0.1°C (±0.2°F) plus the temperature sensor tolerance

• Resolution

0.1°C (0.1°F)

• Alarm Limits

20.0° to 50.0°C (68.0° to 122.0°F) and OFF in 0.1° increments

• Sensor Compatibility

YSI 400-series reusable temperature sensors
YSI 4400-series disposable temperature sensors
Monitor automatically detects sensor type

PRINTER - optional

- Dual trace thermal printer provides waveforms, annotation lines, snapshot, continuous, print on alarms and trend tables

POWER REQUIREMENTS

• AC Input

100 to 240 V, 0.8A, 50/60 Hz

• Battery (9208)

Approx. Operating Time: 60 to 120 minutes
Approx. Recharge Time: 5 hours

DIMENSIONS

- 18.0 cm W x 34.0 cm L x 30.5 cm H
(7" W x 13.25" L x 12.0" H)

WEIGHT

- 4.1 to 5 kg (9 to 11 lbs.),
depending upon options selected

ENVIRONMENTAL

• Temperature

32° to 104°F (0° to 40°C) Operating
-40° to 167°F (-40° to 75°C) Storage

• Humidity

15 - 95% (non-condensing) Operating
10 - 95% (non-condensing) Storage

Veterinary Data Logger - optional

Technical Specifications

POWER REQUIREMENTS

- Powered by the SurgiVet® Advisor®

DIMENSIONS

- 51.1 mm W x 58.5 mm D x 22.5 mm H
(2.01" W x 2.30" D x 0.89" H)

WEIGHT

- 38.0 grams (1.34 oz.)

ENVIRONMENTAL

• Temperature

32° to 104°F (0 to 40°C) Operating
-40° to 167°F (-40 to 75°C) Storage

• Relative Humidity

15 - 95% (non-condensing) Operating
10 - 95% (non-condensing) Storage

SurgiVet® Advisors® manufactured after January 2008 are Data Logger ready (compatible). For SurgiVet® Advisors® manufactured prior to January 2008, please contact your Sales Representative or Veterinary Customer Service to determine compatibility and any necessary upgrade requirements.

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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Veterinary

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Smiths Medical, part of the global technology business Smiths Group

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