The SurgiVet® V9004 Series Capnograph monitor provides capnography, ETCO₂, inspired CO₂, and respiration rate. Integrated sidestream technology ensures that the SurgiVet® V9004 can be used with intubated and non-intubated patients. Its fluorescent display assures easy viewing of waveforms, numeric values and on-screen trending data for demanding veterinary facilities. The compact design and integrated handle make the unit extremely portable. Optional parameters are available including SpO₂ and FiO₂ (fractionally inspired O₂).

For more information, visit www.surgivet.com.
Technical Specifications

DISPLAY & INDICATORS
- **Display**
  - Vacuum Fluorescent
- **LEDs**
  - Alarm silence (yellow)
  - External power (green)
  - High priority alarm (red)
  - Medium/low priority alarm (yellow)
- **Waveforms**
  - CO₂ and optional plethysmogram
- **Graphic Trends**
  - ETCO₂, inCO₂, Respiration, and optional SpO₂, Pulse Rate, Signal Strength, FiO₂
- **Keys**
  - On/Off
  - Wave/Trend
  - Alarm Silence
  - Menu/Enter
  - Up Arrow/Down Arrow

SIDESTREAM CAPNOGRAPHY
- **Measurement**
  - Non-dispersive IR absorption
- **Measurement Range**
  - 0-10% CO₂, STPD
  - (Standard Temperature and Pressure, Dry)
- **Units**
  - mmHg, volume %, kPa (user selectable)
- **Display Range**
  - 0 to 100 mmHg, 0 to 10%; 0 to 13.3 kPa
- **Accuracy**
  - ±2 mmHg; ±0.3%; ±0.3% kPa, or 4% of reading, whichever is greater (0 to 10% CO₂)
- **Averaging**
  - 4 breath average
- **N₂O Compensation**
  - 40% or OFF (default: OFF)
- **System Response Time**
  - 375 ms to 90% of value
  - (Standard Flow Model)
  - 590 ms to 90% of value
  - (Low Flow Model)
- **Flow Rate**
  - 150 ml/min, ±20 (Standard flow model)
  - 80 ml/min, ±5 (Low flow model)
- **Calibration**
  - Manual 2 point

RESPIRATION RATE
- **Range**
  - 0-120 breaths/minute
- **Accuracy**
  - ±1 bpm (0 to 120 bpm for Standard flow, 0 to 72 bpm for Low flow)
- **Averaging**
  - 4 breath average
- **SpO₂ DIGITAL OXIMETRY** (Optional)
  - **Range**
    - 0-100% functional SpO₂
  - **Accuracy**
    - ±2% @ 70 to 100% SpO₂,
    - ±3% @ 50 to 69% SpO₂
  - **Averaging**
    - 4, 8 or 16 beats (default: 8)
  - **PULSE RATE** (Optional)
    - **Range**
      - 20-350 beats/min
    - **Accuracy**
      - ±2% over full range
    - **Averaging**
      - 8 or 16 beats (default: 8)
  - **FIO₂** (Optional)
    - **Range**
      - 0-100% O₂
    - **Accuracy**
      - ±2% O₂
    - **Response Time**
      - < 10 seconds to 90%
    - **Drift**
      - < 2% full scale per month

TRENDS
- **ETCO₂, inCO₂, Respiration and optional SpO₂, Pulse Rate, Signal Strength, FiO₂**
- **Capacity**
  - ≤4 s sample: > 9 hrs, 12-s sample > 28 hrs

POWER REQUIREMENTS
- **AC Power Options**
  - 105-125 VAC, 60 Hz
  - 90-110 VAC, 50 Hz (optional)
  - 208-252 VAC, 50/60 Hz (optional)
- **Input**
  - 24 VDC, 1.5 A

BATTERY
- **Nickel Cadmium**
- **Internally rechargeable, not user replaceable**
- **Fully charged continuous operation of 2 hrs**
- **Maximum charge time 4 hrs**

SERIAL OUTPUT
- **Tabular trends and real time patient data**

ANALOG OUTPUT
- **3 channel internal or 4 channel external**
- **configured for waveforms, parameter values, or calibration signals (0 or 1 V)**
- **External analog output requires use of catalog #9015 (Analog Output Cable)**

DIMENSIONS
- **3.5” H x 10” W x 5.5” D**
  - (8.9 cm H x 25.4 cm W x 14 cm D)

WEIGHT
- **2.2 kg (4.8 lbs)**

ENVIRONMENTAL
- **Operating Temperature**
  - 0°C to 50°C (32°F to 122°F)
- **Storage Temperature**
  - -40°C to 70°C (-40°F to 158°F)
- **Relative Humidity**
  - 15-95% (non-condensing)
  - 10-95% (storage)
- **Atmospheric Pressure**
  - 525 to 760 mmHg
  - (altitude: 10,000 ft to sea level)

CATALOG NUMBERS
- **Standard Flow Model**
  - V90040 CO₂, Respiration
  - V90041 CO₂, Respiration, SpO₂
  - V90042 CO₂, Respiration, SpO₂, FiO₂
- **Low Flow Models**
  - V90040LF CO₂, Respiration
  - V90041LF CO₂, Respiration, SpO₂
  - V90043LF CO₂, Respiration, SpO₂, FiO₂

SurgiVet® V9004 Series Capnograph Monitor
- Sidestream technology accommodates intubated and non-intubated patients
- Patented technology reliably measures SpO₂ in demanding veterinary environments
- Breath-by-breath CO₂ detection allows rapid response to patient changes
- Easy-to-read vacuum fluorescent display
- Optional parameter and interface cable connections
- Quiet system minimizes monitor noise

**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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