

Cardell® Multiparameter Monitor 9403



An affordable way to monitor blood pressure, SpO₂, ECG, respiration and temperature.

Now, get all the parameters you need for complete patient monitoring in an economical compact unit. The Model 9403 includes the Cardell® blood pressure technology and Nellcor's OxiMax® pulse oximetry. The Nellcor SpO₂ component

contains highly advanced, all-digital signal processing to handle motion and low perfusion. Also incorporated is a selectable ECG lead system, respiration rate and a temperature capability. Ask your distributor about it today.



- BP component provides systolic, diastolic, and mean arterial pressure in seconds.
- Automatic, STAT and manual BP modes.
- Pulse rate range from 20-300 beats/min.
- High and low alarm settings for all parameters.
- Nellcor all-digital SpO₂ OxiMax® technology.
- 3 or 5 lead ECG capability.
- Multiple variable lead trace waveform selection.
- 5 gain size selections; trace freeze option.
- Displays system alarms and trouble shooting messages.
- Patient history and alarm history displays.
- Operates on AC or rechargeable battery.
- Battery status display.
- 12 BP cuffs in 6 different sizes, lingual sensor, 3-lead cable included.
- 2-year warranty; 1-year on battery pack.
- Optional printer available.
- Economically priced, light, compact unit.
- Easy to use, intuitive menus.

SHARN
VETERINARY, INC.

The CARDELL® Multiparameter Monitor 9403

Providing BP, SpO₂, ECG, Respiration and Temperature

Exclusively for Veterinarians

SPECIFICATIONS

Blood Pressure

Technique: Oscillometric measurement method.

Parameters: Systolic, diastolic, mean arterial pressure.

Modes: Manual, Auto Cycle, STAT (5 min. consec.).

Automatic Cycle Times: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90.

Determination Time:

- Small cuff: 18 seconds typical @160 BPM 120/80

- Large cuff: 26 seconds typical @75 BPM 120/80

Maximum time allowed: 150 seconds.

Initial Inflation: 150 mmHg; subsequent inflations to approx. 30 mmHg greater than previous systolic pressure.

Blood Pressure Range: 20-265 mmHg

BP Accuracy: In humans is shown to be ± 5 mmHg with standard deviation no greater than 8 mmHg. Meets AAMI/ANSI SP10, '02. Animal types vary.

Pulse Accuracy: $\pm 2\%$

Pulse Oximetry/SpO₂

Oxygen Saturation Range: 0-100%

SpO₂ Accuracy: • 70-100% $\pm 2\%$

Pulse Rate Range: 20-300 beats per minute

Pulse Rate Accuracy: $\pm 3\% \pm 1$ digit

Selectable Pulse Beep Volume/Variable Pulse Tone

Probe: Nellcor digital lingual sensor provided with small and large animal clips.

ECG

Leads: 5-lead set (3-lead set optional). using copper crocodile clips.

Lead Selection: I, II, III, aVR, aVL, AVF, V. Monitor automatically detects whether 3- or 5-lead is used.

Sweep Speed: 12.5, 25 & 50 mm/sec.

Gain Selection: x1, x2, x4, x8, automatic.

Heart Rate Range: 20-300 beats per minute.

Averaging: 4 pulse beat average.

Frequency Response: 0.5 to 40 Hz.

Displays: Multiple ECG lead traces or single cascaded trace.

ECG Calibration: 1mV.

Pace Detect: Yes

Pace Reject: Yes

Respiration

Rate: Uses impedance pneumography derived from ECG leads.

Range: 5 to 150 BrPM.

Sweep Speed: 3.0, 6.25, 12.5 mm/sec.

Temperature

Oral/Rectal Probe: (Optional) YSI 402 9F probe.

General

History Mode: Maintains 8 hours or 480 one-minute events, or past 24 hours of NIBP measurements.

Patient Alarms: Independent high and low limits for ECG, heart rate, respiration rate, SpO₂, pulse rate, systolic and diastolic pressures.

Alarm History: The most recent 25 alarms are stored.

Power:

Source: AC line or internal battery.

AC Power: 100-240VAC, 50-60 Hz, 0.3A.

Battery: Nickel metal hydride battery pack; charge time is less than 4 hours (easily changed for extended battery life); operation on battery is 100 readings @ 5 per minute intervals.

Leakage current: 100 micro amp maximum

Printer: Thermal Printer (optional) with 2 1/4" wide paper width.

Printer Connection: RS232 port for printer connection and infrared port.

PC Connection: Use NULL Modem cable to RS232 port.

Operating Environment:

Temperature: 0°C to 50°C (32°F to 122°F).

Humidity: 15-95%, non-condensing.

Altitude: 500 feet (152 meters) below sea level to 10,000 feet (3048 meters) above sea level.

Storage Temperature: -20°C to 70°C (-40°F to 158°F).

Dimensions: 6.75" H x 8.5"W x 3.5"D

Weight: 4.1 lbs. (1.4 kg)

Warranty: 2-years; 1 year on battery; 6 mos. on SpO₂ sensor.