



CRITICARE TECHNOLOGIES, INC.

Moving performance and reliability *Forward™*



Criticare nCompass™ Vital Signs Monitor

Improve patient outcomes with a comprehensive, user-configurable patient monitoring system

Focus on Your Patient, Not Your Monitor.

The nCompass vital signs monitor is the perfect choice for busy departments demanding accurate, reliable performance to monitor adult and pediatric patients. The innovative user interface features simplified menus and dedicated function keys for timely setups, while a large, bright display can be easily seen from across the room. nCompass monitors can also mount quickly and easily to walls and rollstands.

The nCompass also provides:

- An easy-to-read 12.1" touch-screen display.
- Simplified menus and dedicated function keys.
- Mini-Trends can display condensed tabular vital

signs data to show recent monitoring activities.

- An OXY-CRG trend display.
- Flexible monitor options available with many configurations including ECG, ComfortCuff™ NIBP, DOX™ SpO2, HR, Temperature, Respiration, Arrhythmia and ST analysis and Nurse Call interface connection.
- Optional invasive cardiac output interface capability offered to customers.
- Compatibility with EMR/HIS systems, Criticare's 8500 Series Agent Gas Analyzer for anesthetic monitoring and Criticare's VitalView® Central Station.
- Optional CO2, 1 or 3-channel IBP and printer.

APPROPRIATE LOCATIONS

Physician and dental offices, post-surgical recovery, hospital admission departments, long-term care facilities, emergency departments, and urgent care centers

PRIMARY BENEFITS

Flexible. Monitors adult, pediatric and neonate patients

Customizable. Large bright display is fully user-configurable, allowing for user, location, or procedure customization

Smart. ComfortCuff™ takes measurements on inflation to help avoid unnecessary patient discomfort or bruising



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TECHNICAL SPECIFICATIONS

ECG

Number of Leads: 3- or 5-Lead
 Lead View:
 User-selectable; I, II, III, aVR, aVL, aVF, V (5-Lead); I, II, or III (3-Lead)
 Gain Selection: x0.5, x1, x2, and x4
 Frequency Response:
 Diagnostic: 0.05 to 100 Hz (-3dB);
 Monitor: 0.5 to 40 Hz (-3dB);
 ST: 0.05 to 40 Hz (-3dB)
 Electrosurgery Protection: Yes
 Defibrillator Protection: Yes
 Pacer Detection/Rejection: Yes
 ST Accuracy: ± 0.2 mm or $\pm 5\%$ of reading, whichever is greater, over heart range of 30 to 120 bpm
 ST Range: -6.0 to 6.0 mm

NIBP

Technique: Oscillometric upon inflation
 Measurement Cycle: < 40 sec. typical
 Auto. Measurement Cycles: 2, 3, 5, 10, 15, 30 min; 1, 2, 4 hr
 Max. Allowable Cuff Pressure:
 Adult/Pediatric: 300 mmHg; Neonate: 150 mmHg
 Range: Adult/Pediatric: 30 to 300 mmHg;
 Neonate: 20 to 150 mmHg
 Resolution: 1 mmHg
 Transducer Accuracy: ± 2 mmHg or $\pm 2\%$ of reading, whichever is greater, over full range
 STAT Mode: 5 min of consecutive readings
 Clinical Accuracy: Complies with AAMI SP-10:2002

PULSE OXIMETRY

Range: 1% to 99%
 Resolution: 1%
 Accuracy: 70% to 99% range: $\pm 2\%$; 50% to 69% range: $\pm 3\%$; < 50%: unspecified
 Method: Dual wavelength LED

HEART RATE (PULSE)

Source: User selectable: Smart, ECG, Pleth, NIBP, IBP
 Range: 20 to 300 bpm (ECG, Pleth); 30 to

240 bpm (NIBP); 30-300 bpm (IBP)
 Accuracy: ± 1 bpm or $\pm 1\%$ (ECG) whichever is greater

TEMPERATURE

Channels: 2
 Probe: YSI-700 Series
 Range, Accuracy: 68° to 113°F (20° to 45°C); $\pm 0.1^\circ\text{C}$
 Probe: YSI-400 Series
 Range, Accuracy: 59° to 113° F (15 to 45 C)
 Display Resolution: $\pm 0.1^\circ$

RESPIRATION

Rate: 6 to 150 bpm (ECG); 2 to 120 bpm (CO2)
 Resolution: 1 bpm
 Accuracy: ± 2 bpm or $\pm 2\%$, whichever is greater
 Source: User selectable: Smart, CO2, ECG

CAPNOGRAPHY (CO2)

Units: mmHg; %; kPa; Torr
 Method: Non-dispersive infrared; autocalibrating
 N2O Compensation: Manual (On/Off)
 Range: 0 to 99 mmHg; 0 to 12.5%; 0 to 12.5 kPa; 0 to 99 Torr
 Resolution: 1 mmHg; 0.1%; 0.1 kPa; 1 Torr
 Flow, Sample Rate: 200 ml/min
 Accuracy: ± 2 mmHg; ± 0.3 vol. %; ± 0.3 kPa; ± 2 Torr or $\pm 4\%$ of reading, whichever is greater, at 200 ml/min & respiratory rate of ≤ 120 Br/min
 Rise Time: 170 ms (10 to 90%) at 200 ml/min

IBP

Channels: 1 or 3
 Transducer Sites:
 Selectable: ART, PA, LV, RV, LA, RA, CVP, ICP
 Pressure Range: -10 mmHg to 300 mmHg
 Transducer Freq. Response: 0 to 20 Hz;
 Impedance >300 ohms; Transducer
 Sensitivity: 5 $\mu\text{V}/\text{V}/\text{mmHg}$
 Accuracy: ± 1 mmHg or $\pm 1\%$, whichever is greater

ALARMS

Indication: Audible; Visual (EN 60601-1-8)
 Silence: Yes; 2 minutes or permanent

TRENDS

Memory: 24 hours at 30 second intervals
 Display: Tabular, Graphical

DISPLAY

Screen: 12.1" active color touch screen
 Resolution: Internal: 800 X 600 pixels
 External: 800 x 600 pixels
 Waveform: 6, maximum
 Waveform Types: ECG leads I, II, III, aVR, aVL, aVF, V; CO2; Respiration; Pleth; IBP; breath-by-breath CO2; ST histograms;
 Mini-Trends; OXY-CRG
 Sweep Speed: 6.25, 12.5, 25 or 50 mm/sec
 Languages: English, Czech, French, German, Italian, Portuguese, Polish, Russian, Spanish, Turkish
 Controls Keys: 10; membrane-activated
 Rotary Knob: Push and rotate; 2 steps/turn

SYSTEM OUTPUTS

COM ports: Two RS 232 compatible DB9 ports; USB (for software downloads only)
 Nurse Call: Contact switch; 3.5 mm stereo phone jack, 14 mm
 Defib/Sync: BNC connector
 Video Port: Serial VGA compatible
 DC Out: 5 VDC output for optional wireless accessory
 External Module Port:

8-PIN circular connector

PRINTER (OPTIONAL)

Type: Internal thermal line
 Paper Speed: 12.5, 25 or 50 mm/sec

PHYSICAL PROPERTIES

Weight: 12 lbs; 5.4 kg
 Size: 12" (H) x 14.5" (W) x 11.5" (D); 30.5 cm (H) x 36.8 cm (W) x 29.2 cm (D)

POWER REQUIREMENTS

Voltage: 100 to 240 VAC; 50/60 Hz
 Power Consumption: 35 W, typical
 Battery: 1 sealed lead acid
 Battery Life: 2 hours, typical (3 hours, typical for base unit)
 Recharge Time: 4 to 6 hours, typical

ENVIRONMENTAL

Operating Temperature: 32° to 104°F (0° to 40°C)
 Storage Temperature: 23° to 122°F (-5° to 50°C)
 Operating Humidity: 15% to 90%, noncondensing
 Operating Altitude: -300 to 3,000 meters

CLASSIFICATION

Medical Device: Class II Equipment (IIb EU)
 Electrical Protection: Class I Equipment
 Degree of Protection: Type CF,
 Defibrillator-proof

www.criticaretechnologies.com

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Criticare Technologies, Inc., warrants new equipment to be free from defects in workmanship and materials for a period of two (2) years from date of shipment under normal use and service. The following exceptions apply to this statement and the warranty period as indicated:

- Internal Batteries: one (1) year
 - O₂ Cells and CO₂ Absorbers: six (6) months
 - 940 Series Multi-Site and Y style SpO₂ sensors: six (6) months
- CTI's obligation under this warranty is limited to repairing or replacing, at CTI's option, any part which upon CTI's examination proves defective.

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