



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 μ V/V/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

AVAILABLE CONFIGURATIONS

81H000X	Standard
81H000P	Standard, printer
81H001X	Standard with CO2
81H001P	Standard with CO2, printer
81H010X	Standard, 1 channel IBP
81H010P	Standard, 1 channel IBP, printer
81H011X	Standard with CO2, 1 channel IBP
81H011P	Standard with CO2, 1 channel IBP, printer
81H030X	Standard, 3 channel IBP
81H030P	Standard, 3 channel IBP, printer
81H031X	Standard with CO2, 3 channel IBP
81H031P	Standard with CO2, 3 channel IBP, printer

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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