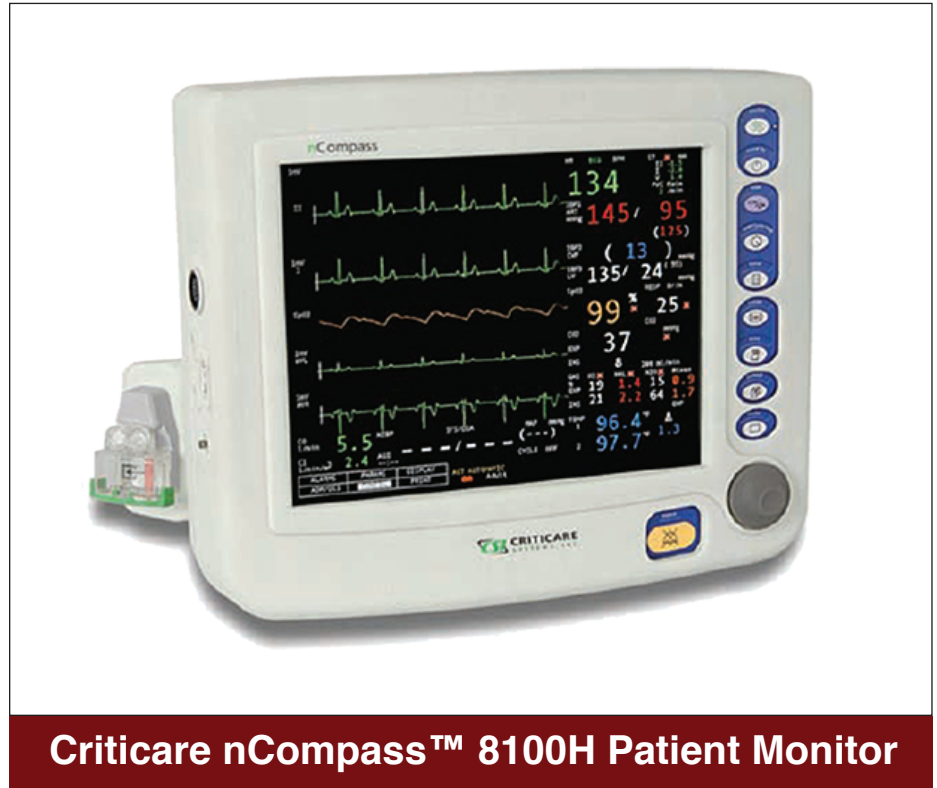


## Product Overview

Improve patient outcomes with a comprehensive, user-configurable patient monitoring system covering the needs of multiple departments within hospitals and outpatient facilities. The nCompass™ patient monitor keeps you focused on your patients, not the monitor. When you demand accurate and reliable performance, The nCompass™ patient monitor is the perfect choice.

The nCompass™ patient monitor can monitor adult and pediatric patients in virtually every department. For timely setups, the innovative user interface features, simplified menus and dedicated function keys are fast and easy to use. You can easily see the large numerics from across the room, thanks to the big, bright display.



**Criticare nCompass™ 8100H Patient Monitor**

## Features

- **STANDARD:** ECG, Respiration, NIBP, HR, SPO2, Temperature, Arrhythmia and ST analysis, and Nurse Call interface connection.
- **OPTIONAL:** CO2, 1 or 3 channel IBP, printer.
- Easy-to-read 12.1" touch screen display.
- Easy to learn, easy to use with simplified menus and dedicated function keys.
- Mini-Trends can display condensed tabular vital signs data to show recent monitoring activities.
- Cardio-Respirogram Trend Display.
- Optional invasive cardiac output interface capability.
- Compatible with Criticare's 8500 Series Agent Gas Analyzer for anesthetic monitoring.

Specifications on Next Page



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## 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:**

$\pm 0.2$  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 (Non-Invasive Blood Pressure)

**Technique:**

Oscillometric measure 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: 30-300 mmHg; Neonate:

20-150 mmHg

*Resolution:* 1 mmHg

*Transducer Accuracy:*  $\pm 2$  mmHg or  $\pm 2\%$  or 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 (Pulse) Rate

**Source:**

User selectable: Smart, ECG, Pleth, NIBP, IBP

**Range:**

20 to 300 bpm (ECG, Pleth);

30-240 bpm (NIBP); 30-300 bpm (IBP)

**Accuracy:**

$\pm 1$  bpm or  $\pm 1\%$  (ECG) whichever is greater

### Temperature

**Channels:**

2

**Range, Accuracy:**

68° to 113°F (20° to 45°C):  $\pm 0.1^\circ\text{C}$

**Display Resolution:**

$\pm 0.1^\circ$

**Probe:**

YSI-400 and YSI-700 Series

Specifications Continued on Next Page

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## Specifications

### Respiration

**Rate:**

6 to 150 bpm (ECG); 2 to 120 bpm (CO<sub>2</sub>)

**Resolution:**

1 bpm

**Accuracy:**

±2 bpm or ±2%, whichever is greater

**Source:**

User selectable: Smart, CO<sub>2</sub>, ECG

### CO<sub>2</sub>

**Units:**

mmHg; %; kPa; Torr

**Method:**

Non-dispersive infrared; autocalibrating

**N<sub>2</sub>O Compensation:**

Manual (On/Off)

**Range:**

0–99 mmHg; 0–12.5%; 0–12.5 kPa; 0–99Torr

**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 ±4% of reading, whichever is greater,  
at 200 ml/min & respiratory rate of ≤ 120 bpm

**Rise Time:**

170 ms (10–90%) at 200 ml/min

### Trends

**Memory:**

24 hours at 30 second intervals

**Display:**

Tabular, Graphical

### IBP (Invasive Blood Pressure)

**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 0–20 Hz; Impedance >300  
ohms; Sensitivity 5µV/V/mmHg

**Accuracy:**

±1 mmHg or ±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:** 2.1" active color touch screen

**Waveforms:** 6, maximum

**Waveform Types:** ECG Leads I, II, III, aVR, aVL,  
aVF, V; CO<sub>2</sub>; Respiration; Pleth; IBP;  
breath-by-breath CO<sub>2</sub>; ST Histograms;  
Mini-Trends; OXY-CRG

**Sweep Speed:** 6.25, 12.5, 25, or 50 mm/sec

Specifications Continued on Next Page

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## Specifications

### Controls

Keys: 10; membrane-activated  
Rotary Knob: Push and rotate; 24 steps/turn

### System Outputs

#### COM ports:

Two RS232-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:** Thermal line printer

**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

**Protection Against Ingress:** IPX1

**Safety:** EN 60601-1