

nCompass™ 8100H Series Patient Vital Signs Monitor

Improve patient outcomes with a comprehensive, user-configurable patient monitoring system covering the needs of multiple departments within hospitals and outpatient facilities.

NEW TOUCH SCREEN DISPLAY!



Configurations

- STANDARD: ECG, Respiration, NIBP, HR, SPO2, Temperature, Arrhythmia and ST analysis, and Nurse Call interface connection.
- OPTIONAL: CO2, 1 or 3 channel IBP, printer.

Features

- 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.

Focus on your patients, not your monitor. The nCompass™ 8100H Series monitor is the perfect choice for busy departments demanding accurate, reliable performance.

The 8100H Series monitor can monitor adult and pediatric patients in virtually every department. The innovative user interface features simplified menus and dedicated function keys for timely setups. The big, bright display with large numerics can easily be seen from across the room.

The 8100H Series monitor mounts quickly and easily to walls and rollstands.

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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 ±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:	±2 mmHg or ±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: ±2%; 50% to 69% range: ±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:	±1 bpm or ±1% (ECG) whichever is greater

Temperature

Channels:	2
Range, Accuracy:	68° to 113°F (20° to 45°C): ±0.1°C
Display Resolution:	±0.1°
Probe:	YSI-400 and YSI-700 Series

Respiration

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

CO2

Units:	mmHg; %; kPa; Torr
Method:	Non-dispersive infrared; autocalibrating
N2O 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

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:	12.1" active color touch screen
Waveforms:	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

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 BNC connector
Defib/Sync	Serial VGA compatible
Video Port:	5 VDC output for optional wireless accessory
DC Out:	8-PIN circular connector
External Module Port:	

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



Quality systems registered to ISO 13485 and CE marking per Annex II, Clause 3 of Council Directive No. 93/42/EEC concerning medical devices.

Configurations Available

- 81H000X* Standard
- 81H000P* Standard with Printer
- 81H001X* Standard with CO2
- 81H010X* Standard with 1 channel IBP
- 81H011X* Standard with 1 channel IBP and CO2
- 81H011P* Standard with 1 channel IBP, CO2 and Printer
- 81H030X* Standard with 3 channel IBP
- 81H031X* Standard with 3 channel IBP and CO2
- 81H031P* Standard with 3 channel IBP, CO2 and Printer

nCompass with
Poet® IQ 8500AH
agent gas analyzer



*Consult with sales or customer service to choose SpO2 module.