nGenuity Patient Monitor

Basic vital signs monitoring in a simple-to-use, lightweight, and portable design. This comprehensive, cost-effective solution is perfect for the bedside or in transport.

Models:

8100EP (printer)
8100E (no printer)
8100EP-ST (printer, with ST)
8100E-ST (no printer, with ST)

Custom Configurations

- Standard: ECG, ComfortCuff™ NIBP, DOX™ SpO$_2$, HR, Temperature, Respiration, and Nurse Call interface connection.

- Optional: Arrhythmia and ST analysis, printer.

Features

- Easy-to-read 10.4" active color TFT display.

- Easy to learn, easy to use – simplified menus and dedicated function keys.

- Lightweight design and versatile mounting options – adapts readily to department and transport requirements.

Focus on your patients, not your monitor. The nGenuity™ 8100E(P) patient monitor is the perfect choice for busy departments demanding accurate, reliable performance.

Compact and lightweight, the nGenuity 8100E(P) patient monitor can monitor adults, pediatrics, and neonates in virtually every department - at bedside or in transit. The innovative user interface features simplified menus and dedicated function keys for timely set-ups. The big, bright display with large numerics can easily be seen, even from across the room.

The nGenuity 8100E(P) patient monitor mounts quickly and easily to walls, rollstands, and bedrails.

CSI CRITICARE
SYSTEMS, INC.

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:	x1/2, 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:	±2mm or ±5% of reading, whichever is greater, over heart range of 30 to 120 bpm
ST Range:	-6.0 to +6.0 mm

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

Non-Invasive Blood Pressure

Technique:	Oscillometric during Inflation
Inflation Pressure Range:	Adult: 30 to 300 mmHg Pediatric: 30 to 300 mmHg Neonate: 20 to 150 mmHg
Measurement Cycle:	< 40 sec. average
Automatic measurement Cycles:	2, 3, 5, 10, 15, 30 minutes; 1, 2, 4 hour (User Selectable Cycle times)
Stat Mode:	5 minutes of continuous readings
Resolution:	1mmHg
Transducer Accuracy:	±mmHg or ±2%, whichever is greater

Heart (Pulse) Rate

Source:	User selectable: Smart, ECG, Pleth, NIBP
Range:	20 to 300bpm (30-240bpm, NIBP)
Accuracy:	±1bpm or ±1% (ECG), whichever is greater ±2bpm or ±2% (NIBP), whichever is greater

Temperature

Channels:	1
Range, Accuracy:	68° to 113° F (20° to 45° C): ±0.1° C
Display Resolution:	±0.1° C
Probe:	YSI-400 and YSI-700 series

Respiration

Rate:	6 to 150 breaths/min
Resolution:	1 breath/min
Accuracy:	±1% or ±1 breath/min, whichever is greater
Source:	ECG-TTI

Alarms

Indication:	Audible; visual (EN475)
Silence:	Yes; 2 minutes or permanent

Trends

Memory:	24 hr at 30 second intervals with an NIBP reading every 3 minutes.
Display:	Tabular, Graphical

Display

Screen:	10.4" active color TFT
Resolution:	640 x 480 pixels
Waveforms:	6, maximum
Waveform Types:	ECG leads I, II, III, aVR, aVL, aVF, V; Respiration; Pleth; ST Histograms
Sweep Speed:	6.25, 12.5, 25, 50mm/sec
Languages:	English, French, German, Italian, Portuguese, Spanish, Russian, Chinese

Controls

Keys:	9; membrane-activated
Rotary knob:	Push and rotate; 24 steps/turn

System Outputs

Com Ports:	RS 232-compatible; DB9 (Com1); mini-din analog (Com 2)
Nurse Call:	Contact switch; 3.5mm stereo phone jack, 14mm length
Defib/Sync:	BNC connector
Video Port:	High density D-sub 15-pin

Printer

Type:	Thermal line printer
Paper Speed:	12.5, 25, 50 mm/sec

Physical Properties

Weight:	14 lb; 6.4kg (without batteries)
Size:	11" (H) x 13" (W) x 10.3" (D); 28cm (H) x 33cm (W) x 26.2cm (D)

Power Requirements

Voltage:	100, 120, 220, 240 VAC; 50/60 Hz
Power Consumption:	35 W, typical
Battery:	1 sealed lead acid; life: 3 hrs, typical; recharge time: 4.5 hr

Environmental

Operating Temperature:	59° to 95° F; 15° to 35° C
Storage Temperature:	23° to 122° F; -5° to 50° C
Operating Humidity:	15% to 90%, noncondensing

Classification

Type of Protection:	Class I equipment
Degree of Protection:	Type CF, Defibrillator-proof
Protection Against Ingress:	IPX1