

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™ SpO₂, 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.

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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:	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:	±2mmHg 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	
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 8 (Com2)	
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	
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		
Medical Device:	Class II Equipment (IIb EU)	
Electrical Protection:	Class I Equipment	
Degree of Protection:	Type CF, Defibrillator-proof	
Protection Against Ingress:	IPX1	

