

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 patients 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 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:	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 150 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		



Quality systems registered to ISO 9001 and CE marking per Annex II, Clause 3 of Council Directive No. 93/42/EEC concerning medical devices.

Specifications subject to change without notice.