nGenuity CO₂ Patient Monitor

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



Custom Configurations

- STANDARD: ETCO₂, INCO₂, ECG, ComfortCuffTM NIBP, DOXTM SpO₂, HR, Temperature, Respiration, and Nurse Call interface connection.
- OPTIONAL: Arrhythmia and ST analysis, printer.

Features

Monitors End-tidal CO₂ and Inspired CO₂

- accurately at high respiration rates.
- Gas monitoring with full occlusion clearing and high capacity water trap.
- Mini-Trends can display condensed tabular vital signs data to show recent monitoring activity.
- Compatible with popular Electronic Medical Records (EMR) systems for both large facilities
- and small offices.

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

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

Focus on your patients, not your monitor. The nGenuity[™] 8100E1 series patient monitors are the perfect choice for busy departments demanding accurate, reliable performance.

The 8100E1 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 set-ups. The big, bright display with large numerics can easily be seen, even from across the room.

The nGenuity 8100E1 series patient monitor mounts quickly and easily to walls and rollstands.



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Technical Specifications

Number of Leads: 3- or 5-Lead

User-selectable; I, II, III, aVR, aVL, aVF, V (5-Lead); Lead View.

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

Pulse Oximetry

Range: 1% to 99% Resolution: 1%

70% to 99% range: ±2%; Accuracy:

50% to 69% range: ±3%;

Oscillometric during Inflation

<50%: unspecified; Complies with ISO 9919

Dual wavelength LED Method:

Non-Invasive Blood Pressure

Technique:

Inflation Pressure Range: Adult/Pediatric: 30 to 300 mmHg

Neonate: 20 to 150 mmHg Measurement Cycle: <40 sec. average

Automatic Measurement Cycles (Selectable):

2, 3, 5, 10, 15, 30 minutes; 1, 2, 4 hour Stat Mode: 5 minutes of continuous readings

Resolution:

Transducer Accuracy: ±2 mmHg or ±2%, whichever is greater

Complies with AAMI SP-10:2002 Clinical Accuracy:

Heart (Pulse) Rate

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

Range: 20 to 300 bpm (30-240 bpm, NIBP) Accuracy:

±1 bpm or ±1% (ECG), whichever is greater

±2 bpm or ±2% (NIBP), whichever is greater

Capnography (CO₂)

Units: mmHg; %; kPa; Torr

Method Non-dispersive infrared; autocalibrating Manual; On/Off, user selectable

N2O Compensation: 0 to 99 mmHg; 0 to 12.5% Range:

Flow, Sample Rate: Sidestream: 200 ml/min

Accuracy: ±2 mmHg, ±0.3 volume %, ±0.3 kPa, or ±2 Torr

at 200 ml/min & respiratory rate <= 120 bpm

170 ms (10-90%) at 200 ml/min Rise Time:

Respiration

6 to 150 breaths/min Rate:

Resolution: 1 breath/min

±1% or ±1 breath/min, whichever is greater Accuracy: Source:

User selectable: Smart, CO2, ECG-TTI

Temperature

Channels:

Range, Accuracy: 68° to 113° F (20° to 45° C): ±0.1° C

Display Resolution:

YSI-400 and YSI-700 Series Probe:

Alarms Silence:

Indication: Audible, visual

Yes; 2 minutes or permanent

Trends

24 hr at 30 second intervals with an NIBP reading Memory:

every 3 minutes Tabular, Graphical Display:

Interface & Display

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

Screen: 10.4" active color TFT Resolution: 640 x 480 pixels Waveforms: 6, maximum

ECG Leads I, II, III, aVR, aVL, aVF, V; Respiration; Waveform Types:

CO2; Pleth; ST Histograms Sweep Speeds: 6.25, 12.5, 25, 50 mm/sec

Languages: English, French, German, Italian, Portuguese,

Spanish, Russian, Chinese

System Outputs

Com Ports: RS 232-compatible; DB9 (Com 1);

Mini-DIN 8 (Com 2)

Contact switch; 3.5 mm jack, 14 mm length Nurse Call:

Defib/Svnc: 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; 6.4 kg

Size: 11" (H) x 13" (W) x 10.3" (D);

28 cm (H) x 33 cm (W) x 26.2 cm (D)

Power Requirements

Voltage 100, 120, 220, 240 VAC; 50/60 Hz

35 W, typical

Power Consumption: Battery: 1 sealed lead acid battery; 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

15% to 90%, noncondensing Operating Humidity:

Classification

Class II Equipment (IIb EU) Medical Device: Electrical Protection: Class I Equipment

Degree of Protection: Type CF, Defibrillator-proof

Protection Against Ingress:





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

8100E1 no printer 8100EP1 8100E1-ST

no printer, with ST 8100EP1-ST printer and ST



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