

nGenuity[™] Series Patient Monitors

USER CONFIGURABLE | MINI-TRENDS | OPTIONAL CO2

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



Configurations

- STANDARD: , ECG, ComfortCuff[®] NIBP, DOX[®] SpO2, HR, Temperature, Respiration and Nurse Call interface connection.
- OPTIONAL: ETCO₂, INCO₂, 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 activities.
- Compatible with popular Electronic Medical Records (EMR) systems for both large facilities and small offices.
- Easy-to-read 10.4" TFT color display.
- Easy to learn, easy to use simplified menus and dedicated function keys.

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

The nGenuity[™] 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 be easily seen from across the room.

The nGenuity[™] mounts quickly and easily to walls and rollstands.

nGenuity[™] Series Patient Monitors

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

Pulse Oximetry

Range: 1% to 99% Resolution: 1%

Accuracy: 70% to 99% range: ±2%; 50% to 69% range: ±3%;

< 50%: unspecified; complies with ISO 9919

Method: Dual wavelength LED

NIBP (Non-Invasive Blood Pressure)

Technique: Oscillometric during inflation
Range: Adult/Pediatric: 30 to 300 mmHg
Neonate: 20 to 150 mmHg

Measurement Cycle: < 40 sec. typical

Automatic Measurement

Cycles (Selectable): 2, 3, 5, 10, 15, 30 min; 1, 2, 4 hr STAT Mode: 5 minutes of continuous readings

Max. Allowable Cuff Pressure: Adult/Pediatric: 300 mmHg; Neonate: 150 mmHg

Resolution: 1 mmHg

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

Clinical Accuracy: Complies with AAMI SP-10:2002

Heart (Pulse) Rate

Source: User selectable: Smart, ECG, Pleth, NIBP
Range: 20 to 300 bpm (30 to 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; %

Range: 0 to 99 mmHg; 0 to 12.5% Sidestream; 200 ml/min

Accuracy: ±2 mmHg, ±0.3 volume %, ±3 kPa, or ±2 Torr at 200 ml/min & respiratory rate <= 120 bpm

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

Respiration

Rate: 6 to 150 bpm (ECG); 2 to 120 bpm (CO2)

Resolution: 1 breath/min

Accuracy: ±1% or ±1 breath/min, whichever is greater Source: User selectable: Smart, CO2, ECG-TTI

Temperature

Channels:

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

Alarms

Indication: Audible; Visual

Silence: Yes; 2 minutes or permanent

Trends

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

every 3 minutes
Display: tabular, graphical

Interface & Display

Keys: 9; membrane activated
Rotary Knob: Push and rotate; 24 steps/turn
Screen: 10.4 inch active color TFT
Resolution: Internal Display: 640 x 480 pixels
External Display: 640 x 480 pixels

Waveforms: 6, maximum

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

CO2; Pleth; ST Histograms 6.25, 12.5, 25, or 50 mm/sec

Sweep Speed: 6.25, 12.5, 25, or 50 mm/sec
Languages: English, Chinese, Czech, French, German, Italian,

Polish, Portuguese, Russian, Spanish, Turkish

System Outputs

COM ports: RS 232 compatible; DB9 (Com1)

Mini-DIN 8 (Com 2)

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

Defib/Sync BNC connector

Video Port: High density D-sub 15-pin Serial VGA compatible

Printer (optional)

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

Physical Properties

Weight: 14 lbs; 6.4 kg Size: 11 in (H) x 13

11 in (H) x 13 in (W) x 10.3 in (D) 28 cm (H) x 33 cm (W) x 26.2 cm (D)

Power Requirements

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

Power Consumption: 35 Watts, typical Battery: 1 sealed lead acid Battery Life: 3 hours, typical Recharge Time: 4.5 hours, typical

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: IF





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

8100E Standard

8100EP Standard with printer
8100E-ST Standard with ST
8100EP-ST Standard with ST, printer
8100E1 Standard with CO2
8100EP1 Standard with CO2, printer
8100EP-ST Standard with CO2, ST
8100EP1-ST Standard with CO2, ST, printer





Corporate Headquarters 20925 Crossroads Circle Waukesha, WI 53186 USA Customer Support
Tel: 262.798.8282 or 800.458.4615
Fax: 262.798.8290
Web: www.csiusa.com

©2009 Criticare Systems, Inc. P/N 48133B001, Rev. 5