

Moving performance and reliability *Forward*™





# Criticare nGenuity™ Patient Monitor

The ideal solution for conscious sedation or post-procedure recovery monitoring

### The Flexible, Easy-to-Use Monitor

The nGenuity patient monitor provides straightforward operation with a user-configurable display, enabling clinicians to quickly access the results they need. For conscious sedation or post-procedure recovery monitoring, this monitor features a wide variety of parameters, including advanced capabilities like ECG analysis, capnography, and mini-trend reporting.

#### The nGenuity also provides:

- A color display with large numeric readings that makes it easy to read from across the room.
- An intuitive on-screen menu selection to streamline monitor set-up and usage.
- Flexible monitor options available with many

configurations including  $CO_2$  monitoring and arrhythmia with ST analysis.

- Inspired and end-tidal readings.
- Compatibility with EMR/HIS systems and Criticare's VitalView® central station.

• An optional configuration that features a patented high-capacity water trap with full occlusion clearing. The trap can be used on multiple patients to lower costs.

• Faster, more comfortable readings through our proprietary ComfortCuff® NIBP that measures on inflation.

- Adjustable audible and visual alarm settings during continuous monitoring.
- Adult, pediatric, and neonate settings to test a complete range of patients.

#### APPROPRIATE LOCATIONS

Ambulatory surgery centers, hospitals, longterm care facilities, and oral surgery offices

#### SUMMARY

• Monitors adult, pediatric and neonate patients

• Large bright display is fully user-configurable, allowing for user, location, or procedure customization

• Optional gas monitoring with full occlusion clearing and high capacity water trap helps lower costs because it is reusable

• ComfortCuff™ takes measurements on inflation to help avoid unnecessary patient discomfort or bruising



# Criticare **nGenuity**<sup>™</sup> Patient Monitor



Video Port: High density D-sub 15-pin

Paper Speed: 12.5, 25 or 50 mm/sec

**POWER REQUIREMENTS** 

Battery: 1 sealed lead acid

**ENVIRONMENTAL** 

(15° to 35°C)

(-5° to 50°C)

non-condensing

CLASSIFICATION

Defibrillator-proof

 $CO_{2}$ 

Voltage: 100 to 240 VAC; 50/60 Hz

Recharge Time: 4.5 hours, typical

Operating Temperature: 59° to 95°F

Storage Temperature: 23° to 122°F

Operating Humidity: 15% to 90%,

Medical Device: Class II Equipment (IIb EU)

Electrical Protection: Class I Equipment

Degree of Protection: Type CF,

Protection Against Ingress: IPX1

Power Consumption: 35 Watts, typical

Battery Life: 3.0 hours, typical (2.5 hours w/

serial VGA compatible

**PRINTER (OPTIONAL)** 

Type: Thermal line printer

## **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

#### NIBP

Technique: Oscillometric measure
upon inflation
Inflation Range: Adult/Pediatric: 0 to 300
mmHg; Neonate: 0 to 150 mmHg
Measurement Cycle: < 40 sec. typical;
standard adult cuff
Automatic Measurement: 2, 3, 5, 10, 15, 30
min., 1-hour, 2-hour, and 4-hour intervals
STAT Mode: 5 minutes
of consecutive readings
Maximum Cuff Pressure: Adult/Pediatric:
300 mmHg; Neonate: 150 mmHg
Resolution: 1 mmHg
Transducer Accuracy: $\pm 2 \text{ mmHg or } \pm 2\%$
of reading, whichever is greater
over full range
Clinical Accuracy: Complies with AAMI
SP-10:2002

#### **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

#### **HEART RATE (PULSE)**

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

(30 to 240 bpm NIBP)

Accuracy:

 $\pm 1$  bpm or  $\pm 1\%$  of reading (ECG), whichever is greater; (±3 bpm maximum)

#### **CAPNOGRAPHY** (CO2)

Units: mmHg; kPa; Torr; Percent Method: Non-dispersive infrared: autocalibrating N2O Compensation: Manual: On/Off. user selectable Range: 0 to 99 mmHg; 0 to 12.5% Flow, Sample Rate: Sidestream; 200 ml/min Accuracy: ±2 mmHg, ±0.3 volume %,  $\pm 0.3 kPa$  , or  $\pm 2$  Torr at 200 ml/min and respiratory rate equal or less than 120 bpm Rise Time: 170 ms (10 to 90%) at 200 ml/min

#### RESPIRATION

Rate: 6 to 150 bpm (ECG); 2 to 120 bpm (CO<sub>2</sub>) Resolution: 1 breath/min Accuracy: ±1 breath/min Source: User selectable: Smart, CO<sub>2</sub> ECG-TTI

#### **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

#### ALARMS

Indication: Audible; Visual Silence: Yes; 2 minutes or permanent

#### www.criticaretechnologies.com

Criticare and nGenuity are trademarks of Criticare Technologies, Inc. All other trademarks are property of Criticare Technologies. Inc. Specifications subject to change without notice. Copyright © 2016 Criticare Technologies, Inc. All rights reserved. Quality systems registered to ISO 13485.

Corporate Headquarters • 125 Commerce Park Road, North Kingstown RI 02852 USA Customer Support • +1.800.458.4615 or +1.401.667.3837 • Fax +1.401.294.7541

#### TRENDS

Memory: 24 hr at 30 second intervals with a NIBP reading every three minutes Display: Tabular, graphical

#### **INTERFACE & DISPLAY**

Kevs: 9: membrane activated Rotary Knob: Push and rotate; 24 steps/turn Screen: 10.4 inch active color TFT Resolution: Internal Display: 640 x 480; External VGA Display: 640 x 480 Waveforms: 6, maximum Waveform Types: ECG Leads I, II, III, aVR, AVL, AVF, V; Respiration; CO<sub>2</sub>; Pleth; ST Histograms Sweep Speed: 6.25, 12.5, 25, or 50 mm/sec Languages: English, Czech, French, German, Italian, Polish, Portuguese, Russian, Spanish, and Turkish

#### PHYSICAL PROPERTIES

Weight: 14 lbs; 6.4 kg Size: 11 in (H) x 13 in (W) x 10.3 (D); 28 cm (H) x 33 cm (W) x 26.2 cm (D)

#### SYSTEM OUTPUTS

Nurse Call: Contact switch; 3.5 mm phone iack, 14 mm length COM Port: RS232 compatible, DB9 (Com 1) Defib/Sync: BNC connector

# **AVAILABLE CONFIGURATIONS**

8100E	Standard
8100EP	Standard with printer
8100E-ST	Standard with ST
8100EP-ST	Standard with ST, printer
8100E1	Standard with CO <sub>2</sub>
8100EP1	Standard with CO <sub>2</sub> , printer
8100E1-ST	Standard with CO <sub>2</sub> , ST
8100EP1-ST	Standard with CO <sub>2</sub> , ST, printer

Criticare Technologies, Inc., warrants new equipment to be free from defects in workmanship and materials for a period of two (2) years from date of shipment under normal use and service. The following exceptions apply to this statement and the warranty period as indicated: • Internal Batteries: one (1) year

Intertek

• O<sub>2</sub> Cells and CO<sub>2</sub> Absorbers: six (6) months

 940 Series Multi-Site and Y style SpO<sub>2</sub> sensors: six (6) months CTI's obligation under this warranty is limited to repairing or replacing, at CTI's option, any part which upon CTI's examination proves defective.

