

# BCI, Inc. Capnocheck® Plus Capnograph



## Intelligent Capnography **PLUS** ...

BCI, Inc. engineers the cost out of End Tidal CO<sub>2</sub> technology with the Capnocheck® Plus Capnograph, the second in the Clarity® Series of monitors. The Capnocheck® Plus Capnograph offers crisp, clear waveforms with large numerics for maximum visibility. With the optional additions of pulse oximetry and FiO<sub>2</sub>, the lightweight, portable Capnocheck® Plus monitor has the flexibility to meet the needs of today's demanding clinical environments.



- ◆ High resolution vacuum fluorescent display
- ◆ Simplified menu structure
- ◆ Monitoring of both intubated and non-intubated patients
  - ◆ Flexibility to incorporate SpO<sub>2</sub> and FiO<sub>2</sub> technology
- ◆ Patented moisture removal system
  - ◆ 4 channel analog output for polysomnography interfacing



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## SPECIFICATIONS:

### Displays & Indicators:

Display Vacuum Fluorescent  
 Indicators Alarm, Alert, Charge, Silenced  
 Displayed Trends Graphical display, factory selectable sample rate, user selectable trend  
 16 hr. display @ 12 sec. sample rate,  
 10 hr. display @ 4 sec. sample rate  
 Displayed Waveforms Selectable CO<sub>2</sub> or CO<sub>2</sub>/Plethysmogram waveform

### Alarms:

Physiological Adjustable volume User-selectable high and low limits for all displayed parameters  
 Screen indicators for each parameter  
 System Silence Adjustable volume  
 Temporary 2 min. or OFF LED indicator

**Flow Rate:** 120 ml/min, +/-20

### CO<sub>2</sub>:

Measurement Non-Dispersive IR absorption  
 Measurement Range 0-10% CO<sub>2</sub>  
 Units User-selectable: mmHg, Vol. %, kPa  
 Display Range 0-100 mmHg or 0-10.0% CO<sub>2</sub> or 0-13.3 kPa  
 Accuracy ±2 mmHg; ±0.3%; ±0.3 kPa, or 4% of reading, whichever is greater (0-10% CO<sub>2</sub>)  
 Resolution 1 mmHg; 0.1%; 0.1 kPa  
 Calibration 2 point Cal  
 N<sub>2</sub>O Compensation User-selectable 40% (default = OFF)  
 Response Time 375 msec to 90% of value  
 Averaging 4-breath average or breath by breath, user selectable

### Respiration Rate:

Range 0-150 bpm  
 Averaging 4-breath average  
 Accuracy ± 1 bpm

### SpO<sub>2</sub> (Optional):

Range 0-100%  
 Accuracy ±2% at 70-100%; ±3% at 50-69%  
 Averaging 4, 8 or 16 beat, user-selectable

### Pulse Rate (Optional):

Range 30-250 bpm  
 Accuracy ±2% @ 30-250 bpm

Averaging 8 or 16 seconds, user-selectable  
 Pulse Tone Pitch corresponds to SpO<sub>2</sub> value  
 Volume adjustable or OFF

### FiO<sub>2</sub> (Optional):

Range 0-100%  
 Accuracy ±2%  
 Response Time < 10 sec. to 90%  
 Drift < 2% full scale per month

### Dimensions:

3.5" H x 10.0" W x 5.5" D  
 (88.9 mm H x 254 mm W x 139.7 mm D)

**Weight:** 4.8 lbs. (2.2 kg)

### Power Requirements:

AC Charger 115 V~, 60 Hz  
 Input (Optional) 100 V~, 50 Hz  
 (Optional) 230 V~, 50/60 Hz  
 Battery Nickel Cadmium battery, 6 VDC, internal rechargeable, not user replaceable, fully charged continuous - use life 2 hours approximate, maximum full charge time 4 hours

### Serial Output:

RS232C: tabular trends, patient data  
 For Sleep Study: 10 hrs. @ 4 sec., 31 hrs. @ 12 sec.

### Analog Output:

Any three of: CO<sub>2</sub> waveform, Plethysmogram, End Tidal CO<sub>2</sub>  
 Respiration Rate, Inspired CO<sub>2</sub>, %SpO<sub>2</sub>, Pulse Rate  
 Fractional Inspired Oxygen, 0V or 1V Cal signal,  
 Range 0-1 VDC full scale

### Environmental Specifications:

Operating Temperature 32-122° F (0-50° C)  
 Storage Temperature -40-158° F (-40-70° C)  
 Relative Humidity 10-95% (storage)  
 (non-condensing) 15-95% (operating)

**Safety Approvals:** EN60601-1, EN60601-1-1, UL 544,  
 CSA Std. C22.2 No. 125-1984

EMC EN60601-1-2

### MDD Version Available

Available languages: English, German, French, Italian,  
 Spanish, Portuguese

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Please read the Instructions for Use supplied with the product for detailed instructions, warnings, and cautions.

### Q-Line for U.S.A. Customers

Call our Q-Line at 1-800-348-1842 for emergency and clinical application information 24 hours a day, 365 days a year.  
 Experienced Clinical Specialists will return your call and assist with any questions you may have.

For more information, or for the name of your BCI representative, contact BCI, Inc.



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ISO 9001 Certified



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The product referenced is covered by U.S. Patent number 5,386,833; other patents pending

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