

# Capnocheck® Sleep Capnograph/Oximeter



The BCI® Capnocheck® Sleep Capnograph/Oximeter is specially designed for sleep screenings and lab-based sleep studies. Its 4-channel analog output capability lets you select ETCO<sub>2</sub> numeric value, ETCO<sub>2</sub> waveform, inspired CO<sub>2</sub>, respiratory rate, heart rate, as well as SpO<sub>2</sub> numeric and waveform displays. The BCI® Capnocheck® Sleep interfaces easily with most polysomnograph equipment for enhanced detection of respiratory depression during sleep.

For more information visit [smiths-medical.com/bci](http://smiths-medical.com/bci).

PATIENT MONITORING



# Capnocheck® Sleep Capnograph/Oximeter

- Quiet System minimizes monitor noise.
- Patented technology reliably measures SpO<sub>2</sub>.
- Breath-by-breath CO<sub>2</sub> detection allows rapid response to patient changes.
- Disappearing display and no audible alarms or pulse tones in sleep mode minimize patient distraction.
- 4-channel analog output capability offers versatile room and sleep lab set-up.
- Perform non-lab or preliminary sleep studies via PC analysis software.
- Incorporates economical sidestream technology.

## Technical Specifications

### DISPLAYS, INDICATORS AND KEYS

- **Display**  
Vacuum fluorescent
- **Indicators**  
Alarm, charge, silenced
- **Displayed Trends**  
Graphical display, user selectable sample rate, user selectable trend up to 16 hr display at 12 sec sample rate up to 10 hr display at 4 sec sample rate
- **Displayed**  
Selectable CO<sub>2</sub> or CO<sub>2</sub>/plethysmogram
- **Waveforms**  
Waveform

### ALARMS

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

### FLOW RATE

150 ml/min, ± 20

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

- **Measurement**  
Non-dispersive IR absorption
- **Measurement Range**  
0-10% CO<sub>2</sub> STPD  
(standard temperature and pressure dry)
- **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)
- **Rise Time**  
360 ms (average)
- **Averaging**  
4-breath average, or breath-to-breath selectable

### RESPIRATION RATE

- **Range**  
0-150 bpm
  - **Averaging**  
4 breath average
  - **Accuracy**  
±1 bpm
- ### SpO<sub>2</sub>
- **Range**  
0 to 100% SpO<sub>2</sub> (functional)
  - **Accuracy**  
±2% at 70-100%; <70% unspecified
  - **Averaging**  
2, 4, 8, or 16-beat averaging (default: 2)

### PULSE RATE

- **Range**  
30-254 bpm
- **Accuracy**  
Greater of ±2 bpm or ±2%
- **Averaging**  
8 seconds
- **Pulse Tone**  
Pitch corresponds SpO<sub>2</sub> value  
Volume adjustable or OFF

### POWER REQUIREMENTS

105-125 VAC, 60 Hz  
90-110 VAC, 50 Hz (optional)  
208-252 VAC, 50/60 Hz (optional)

### BATTERY LIFE

Nickel cadmium battery, 6 VDC, internal rechargeable, not user replaceable, fully-charged continuous life of approximately 2 hours, maximum full charge time 4 hours.

### ANALOG OUTPUT

- **Any four**  
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, 0 V or 1 V cal signal
- **Range**  
0-1 VDC full scale

### SERIAL OUTPUT

- **RS232C**  
Tabular trends, patient data
- **Sleep Study**  
10 hrs at 4 sec, 31 hrs at 12 sec

### DIMENSIONS

3.5" H x 10.0" W x 5.5" D  
(8.9 cm H x 25.4 cm W x 13.9 cm D)

### WEIGHT

- **Base Unit**  
4.8 lbs. (2.2 kg)

### ENVIRONMENTAL

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

### STANDARDS

EN60601-1, (IEC 60601-1),  
EN60601-1-2, EN60601-1-1,

### REGULATORY COMPLIANCE

ISO 9001/ISO 13485

### CATALOG NUMBER

- **9004-050**  
Capnocheck® Sleep Capnograph
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