

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 ETCO₂ numeric value, ETCO₂ waveform, inspired CO₂, respiratory rate, heart rate, as well as SpO₂ 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.

PATIENT MONITORING



Capnocheck® Sleep Capnograph/Oximeter

- Quiet System minimizes monitor noise.
- Patented technology reliably measures SpO₂.
- Breath-by-breath CO₂ 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 CO₂ or CO₂/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

CO₂

- **Measurement**
Non-dispersive IR absorption
- **Measurement Range**
0-10% CO₂ STPD
(standard temperature and pressure dry)
- **Units**
User-selectable: mmHg, Vol. %, kPa
- **Display Range**
0-100 mmHg or 0-10.0% CO₂ or 0-13.3 kPa
- **Accuracy**
±2 mmHg; ±0.3%; ±0.3 kPa, or 4% of reading, whichever is greater (0-10% CO₂)
- **Resolution**
1 mmHg; 0.1%; 0.1 kPa
- **Calibration**
2 point cal
- **N₂O 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
- ### SpO₂
- **Range**
0 to 100% SpO₂ (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 SpO₂ 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**
CO₂ waveform, plethysmogram, end tidal CO₂, respiration rate, inspired CO₂, % SpO₂, 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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