

smiths

The Smiths Medical PM, Inc.
ADVANTAGE

- 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

CAPNOCHECK® SLEEP CAPNOGRAPH/OXIMETER

Quiet System monitors
ETCO₂ and SpO₂
without disturbing
sleep study patients.



The **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. Patented Serial Autocorrelation (SAC) pulse oximetry technology provides reliable SpO₂ measurements. For more information visit smiths-medical.com.

CAPNOCHECK® SLEEP CAPNOGRAPH/OXIMETER

SPECIFICATIONS:

Displays & Indicators:

Display	Vacuum Fluorescent
Indicators	Alarm, Charge, Silenced
Displayed Trends	Graphical display, user selectable sample rate, user selectable trend up to 16 hr. display @ 12 sec. sample rate up to 10 hr. display @ 4 sec. sample rate
Displayed Waveforms	Selectable CO ₂ or CO ₂ /Plethysmogram 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% CO ₂
Units	User-selectable: mmHg, Vol. %, kPa
Display Range	0-100 mmHg or 0-10.0% CO ₂ or 0-13.3 kPa
Accuracy	±2 mmHg; ±0.3%; ±0.3 kPa, or 4% of reading, whichever is greater (0-10%CO ₂)
Resolution	1 mmHg; 0.1%; 0.1 kPa
Calibration	2 point Cal
N ₂ O-	
Compensation	User-selectable 40% (default=OFF)
Rise Time	360ms (average)
Averaging	4-breath average, or breath-to-breath selectable

Respiration Rate:

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

SpO₂

Range	0-100% Functional SpO ₂
Accuracy	±2% at 70-100%: <70% unspecified
Averaging	2, 4, 8, or 16-beat averaging (default: 2)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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

Pulse Rate:

Range	30-254 bpm
Accuracy	Greater of ±2 bpm or ±2%
Averaging	8
Pulse Tone	Pitch corresponds SpO ₂ value Volume adjustable or OFF

Power Requirements:

AC Charger Input	115V~, 60 Hz (Optional) 100V~, 50 Hz (Optional) 230V~, 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

Analog Output:

Any four of:	CO ₂ waveform, Plethysmogram, End Tidal CO ₂ , Respiration Rate, Inspired CO ₂ , % SpO ₂ , Pulse Rate, 0V or 1V Cal Signal
Range	0-1 VDC full scale

Serial Output:

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

Weight:

4.8 pounds (2.2 kg)

Dimensions:

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

Environmental Specifications:

Operating Temperature	32 to 122° F (0 to 50° C)
Storage Temperature	-40 to 158° F (-40 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, UL 544, CSA Std. C22.2 No. 125-1984

Regulatory Compliance:

510(k): K970209
ISO 9001/ISO 13485



Catalog Numbers:

9004-050	Capnocheck® Sleep Capnograph
9004-051	Capnocheck® Sleep Capnograph/Oximeter

Q-Line for U.S.A. Customers call 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, please call Smiths Medical PM, Inc. Patient Monitoring and Ventilation at 262-542-3100 or 800- 558- 2345 or your Smiths Medical distributor

smiths

Smiths Medical PM, Inc.

Patient Monitoring and Ventilation
N7 W22025 Johnson Drive, Waukesha, Wisconsin 53186 USA
Phone: 262-542-3100 Fax: 262-542-0718 Toll-Free: 800-558-2345
www.smiths-medical.com

The product described is covered by U.S. Patent Nos. 5,386,833; 5,437,275
BCI and Capnocheck are trademarks of the Smiths Medical family of companies
The symbol © indicates it is registered in the U.S. Patent and Trademark Office and certain other countries.
© 2004 Smiths Medical family of companies. All rights reserved
BCI 9004-051 Rev 02 10/04