

# Capnocheck® Capnometer



**The BCI® Capnocheck® Capnometer** is a small portable quantitative capnometer that monitors carbon dioxide concentrations and respiratory rate in one easy to use device that can be used for

- Intubation verification
- Return of spontaneous circulation during CPR
- Routine airway management
- Transport
- Ventilator weaning

Unlike colorimetric and other qualitative mechanical devices, the Capnocheck® Capnometer provides a fully quantitative value that is now recommended in the AHA 2005 guidelines. During resuscitation, the Capnocheck® Capnometer can be an effective noninvasive indicator of cardiac output, and return of spontaneous circulation. The simple operation and accuracy of the Capnocheck® Capnometer make it an invaluable tool in all areas of clinical practice.

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

**PATIENT MONITORING**



## BCI® Capnocheck® Capnometer

The ultra-compact Capnocheck® Capnometer makes monitoring patients' ETCO<sub>2</sub> easy, efficient, and dependable.

- Intuitive to use
- Fully quantitative
- Miniaturized mainstream device
- Pocket size and lightweight (2.1 oz)
- Battery powered – 2 AAA for continuous operation up to 8 hours
- No calibration required
- No warm-up time
- Two versions available – with or without alarms
- Lightweight, small, easy storage



## The Capnocheck® Capnometer's miniature size is proven in the most critical scenarios

### Evaluate

- Provides immediate information of respiratory status
- Routine assessment of ventilation
- Non-invasive assessment of respiratory status with mouthpiece
- Validation and assessment of therapies and treatments
- Use with mask or artificial airway

### Resuscitate

- Verification/Confirmation of tracheal intubation
- Early indicator of return of spontaneous circulation (ROSC) during CPR
- Informs the clinician of the effectiveness of cardiac compressions
- Meets AHA 2005 Guidelines indicating that end-tidal CO<sub>2</sub> monitoring is a safe and effective noninvasive indicator of cardiac output during CPR and may be an early indicator of ROSC in intubated patients

### Transport

- Increases safety during patient transports by facilitating the integrity of an ET tube
- Provides an indication of adequate ventilation
- Helps monitor airway during patient movement

### Ventilate

- Assists in ongoing and routine assessment of ventilation (Helping to reduce the number of routine arterial blood gases)
- Monitors the adequacy of ventilation during ventilator weaning
- Early indicator of respiratory muscle failure



## Smiths Medical also provides a full-featured solution for emergency and transport ventilation resuscitation

### Pneupac® VR1 Emergency and Transport Ventilator

- Small, lightweight design has all the advantages of portability without compromising key clinical features
- Auto/manual control allows the operator to choose automatic mode or to provide ventilation manually
- Integrated patient demand system allows synchronized interaction with the patient's own breathing efforts
- Available with and without airmix



# Capnocheck® Capnometer

## Technical Specifications

### Description

Pocket size, battery powered, quantitative capnometer for mainstream CO<sub>2</sub> monitoring of adults and pediatrics

### Measurements

Non-dispersive IR absorption

### Models

Capnocheck® WW8110-000  
Capnocheck® with alarms WW8110-001

### Warm Up

Operational to full specification within 5 sec.

### Calibration

No routine calibration required

### Certifications

93/42/EEC and UL/CSA 60601-1

### Dimensions

2.1 x 1.5 x 1.5 inches (52 x 39 x 39 mm)

### Weight

2.1 oz (60 g) with batteries

### Shock Absorption

Withstands repeated 1 m drops

## POWER REQUIREMENTS

### Batteries

Two (2) AAA cell alkaline batteries (2 x 1.5VDC)  
(IEC Type LR03); 8 hour normal operation

### Power Status

LED Indicator

## ENVIRONMENTAL

### Operating Conditions

Temperature: 23°F to 122°F (-5°C to +50°C)  
Humidity: 10 - 95% RH (non-condensing)  
Atmospheric Pressure: 70 - 120 kPa

### Storage Conditions

Temperature: -22°F to +158°F  
(-30°C to +70°C)  
Humidity: 5 - 100% RH (condensing)  
Atmospheric Pressure: 50 - 120 kPa

## DISPLAYS

### ETCO<sub>2</sub>

LED Numeric Display

### Respiratory Rate

LED Numeric Display

### CO<sub>2</sub> Bar Graph

14 segment LED bar graph

## CONTROLS

### Power

ON key

### Alarm Silence

2 min. alarm silence key (WW8110-001 only)

### ETCO<sub>2</sub>

Up/Down key for setting alarm limits  
(WW8110-001 only)

## CO<sub>2</sub>

### Range

0 - 99 mmHg<sup>(1)</sup>

### Accuracy

0-40 mmHg ± 2 mmHg, 41-99 mmHg 6% of reading, during standard conditions<sup>(2) (3)</sup>

### Rise Time

< 60 ms

### Total System Response Time

< 0.5 sec.

## NOTES

(1) Gas reading showing actual partial pressure at current humidity level.

(2) To include quantitative effect on gas reading from variations in environment conditions and presence of N<sub>2</sub>O, anesthetic agents, Ethanol, Isopropyl alcohol, He, Acetone and Methane, then the CO<sub>2</sub> accuracy range should be increased to ±4 mmHg or 10% of reading, whichever is the greater.

(3) CO<sub>2</sub> was tested at a RR of 40. As RR rates increase above 60, the accuracy range will also increase.

## Capnocheck® Capnometer and Accessories

Capnocheck® Capnometer with Alarms (mmHg).....	WW8110-001SYS
Capnocheck® Capnometer (mmHg).....	WW8110-000SYS
Airway Adapter, box of 25.....	WW8111
Lanyard.....	WW8121
Carrying Case.....	WW8120



Airway Adapter



Lanyard



Carrying Case

Information subject to change without notice. Please read the Instructions For Use supplied with the product for detailed instructions, warnings and cautions. For more information, please call Smiths Medical PM, Inc. at 262-542-3100 or 800-558-2345 or your Smiths Medical distributor.

### Smiths Medical PM, Inc.

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