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.
BGI® Capnocheck® Capnometer

The ultra-compact Capnocheck® Capnometer makes monitoring patients’ ETCO₂ 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

![BCI® Capnocheck® Capnometer Diagram](image-url)
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 CO₂ 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 CO2 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**

- **ETCO₂**
  LED Numeric Display

- **Respiratory Rate**
  LED Numeric Display

- **CO₂ Bar Graph**
  14 segment LED bar graph

**CONTROLS**

- **Power**
  ON key

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

- **ETCO₂**
  Up/Down key for setting alarm limits (WW8110-001 only)

**CO₂**

- **Range**
  0 - 99 mmHg (1)

- **Accuracy**
  0-40 mmHg ± 2 mmHg, 41-99 mmHg 6%

- **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 N₂O, anesthetic agents, Ethanol, Isopropyl alcohol, He, Acetone and Methane, then the CO₂ accuracy range should be increased to ±4 mmHg or 10% of reading, whichever is the greater.

(3) CO₂ 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

Smiths Medical PM, Inc.
Patient Monitoring and Ventilation
N7W22025 Johnson Drive, Waukesha, Wisconsin 53186 USA
Phone: 262-542-3100   Fax: 262-542-0718   Toll-Free: 800-558-2345
www.smiths-medical.com/capnocheck

Smiths Medical, part of the global technology business Smiths Group

© 2009 Smiths Medical family of companies. All rights reserved. BC2036 Rev.02 08/09