

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. The Capnocheck® Capnometer uses a miniaturized mainstream ETCO_2 technology providing unmatched accuracy in a light weight, cost effective capnometer. Unlike other capnometers, the Capnocheck® Capnometer does not need to be calibrated. Powered by 2 AAA batteries, the device has multiple applications including intubation verification, an indicator for return of spontaneous circulation, routine airway management, ventilator transport and 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, CPR effectiveness, and indicator for return of spontaneous circulation. The simple operation and accuracy of the Capnocheck® Capnometer make it an invaluable tool in all areas of clinical practice.

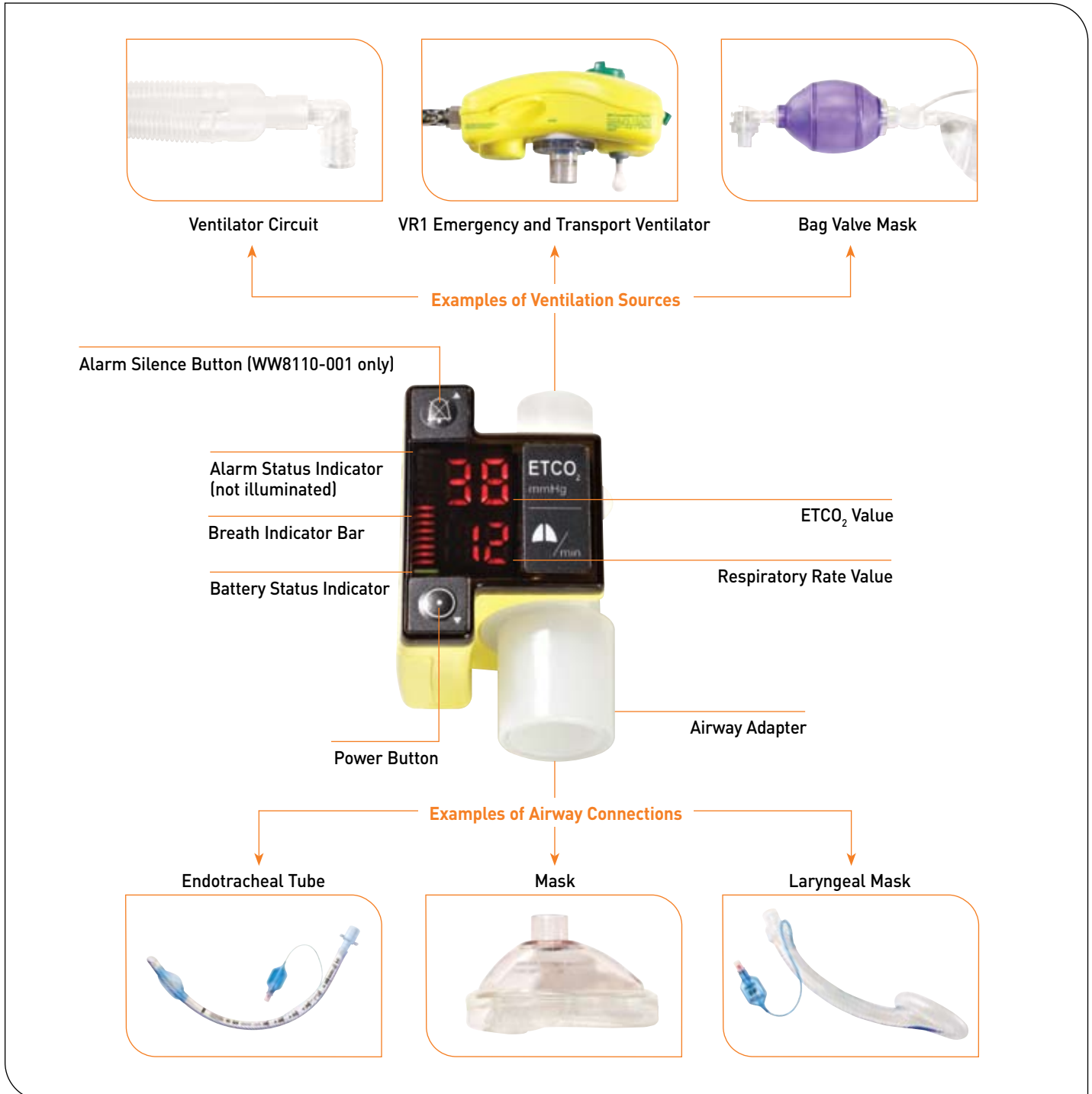
PATIENT MONITORING



BCI® Capnocheck® Capnometer

The ultra-compact Capnocheck® Capnometer monitors patient ETCO₂ data through each phase of patient care.

- Easy to use
- Fully quantitative
- Miniaturized mainstream device
- Pocket size, lightweight (2.1oz)
- Battery powered – 2 AAA
- No calibration required
- No warm-up time



The Capnocheck® Capnometer's miniature size will prove its value in the most critical scenarios

Resuscitation

- Verification/Confirmation of tracheal intubation
- Quantitative measurement – unlike colorimetric devices
- Early indicator of return of spontaneous circulation (ROSC) during CPR
- Informs the clinician of the effectiveness of cardiac compressions
- Meets AHA 2005 Guidelines

Airway Management

- Increases safety during patient transports
- Provides an indication of adequate ventilation
- Helps monitor airway during patient movement
- Continuous operation for up to 8 hours
- Two versions available – with or without alarms

Ventilation

- Assists in ongoing assessment of ventilation
- Routine assessment of ventilation (can reduce the number of routine arterial blood gases)
- Monitors the adequacy of ventilation during ventilator weaning
- Early indicator of respiratory muscle failure
- Validation and assessment of therapies and treatments

EMS

- Provides immediate information of respiratory status
- Lightweight, small, easy storage
- One button operation
- Routine assessment of ventilation
- Use with mask or artificial airway
- Non-invasive assessment of respiratory status with mouthpiece



Smiths Medical also provides the 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.



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% of reading, during standard conditions^{(2),(3)}
- **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



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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