

# Single-width Airway Module, E-miniC

For compact CO<sub>2</sub> sidestream respiratory monitoring



The E-miniC Module is a single-width, plug-in module, compliant with IEC 60601-1 3rd edition. The module is intended for use for patients weighing over 5 kg (11 lb) only.

## Features

- CO<sub>2</sub> side stream measurement done at the patient's airway
- Very small and reliable measurement technology
- Inspired and end-tidal CO<sub>2</sub> values displayed on the screen as waveforms and in numerical format
- Full numerical and graphical trends of all measured data
- Measurement of respiration rate up to 80 breaths per minute
- Fast response time
- Wide measurement range for CO<sub>2</sub>
- Adjustable high and low alarm limits for EtCO<sub>2</sub> and FiCO<sub>2</sub>
- Manual adjustment for N<sub>2</sub>O and O<sub>2</sub> allowed for improved CO<sub>2</sub> measurement accuracy
- Accommodates water separation system which is lightweight and has good tolerance for tilting

## Technical specifications

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### General

Sampling rate 150 ±25 ml/min

Displayed values updated breath by breath

Manual O<sub>2</sub> and N<sub>2</sub>O compensation allowed to improve CO<sub>2</sub> measurement accuracy

- When manual O<sub>2</sub> compensation is not activated (O<sub>2</sub> concentration 40% to 95%), CO<sub>2</sub> reading decreases <0.3 vol%
- When the manual compensation for O<sub>2</sub> is activated (O<sub>2</sub> concentration 40 to 95%), the error in the CO<sub>2</sub> reading is < 0.15 vol%
- When manual N<sub>2</sub>O compensation is not activated (N<sub>2</sub>O concentration 40 to 80%), CO<sub>2</sub> reading increases < 0.8 vol%
- When the manual compensation for N<sub>2</sub>O is activated (N<sub>2</sub>O concentration 40 to 80%), the error in the CO<sub>2</sub> reading is < 0.3 vol%

### Non-disturbing gases

Ethanol, acetone, methane, nitrogen, water vapor:  
Effect on readings at 5.0 vol%: < 0.2 vol% (max)

### Carbon dioxide (CO<sub>2</sub>)

EtCO<sub>2</sub> End-tidal CO<sub>2</sub> concentration

FiCO<sub>2</sub> Inspired CO<sub>2</sub> concentration

Measurement range 0 to 20 vol%  
(0 to 20 kPa, 0 to 150 mmHg)

Accuracy CO<sub>2</sub> concentration 0 to 15 vol%  
±(0.2 vol% + 2 % of reading)  
CO<sub>2</sub> concentration 15 to 20 vol%  
±(0.7 vol% + 2 % of reading)

Rise time < 300 ms with nominal flow

Adjustable low and high limits for EtCO<sub>2</sub> or FiCO<sub>2</sub>

### Respiration rate (RR)

Measurement range 4 to 80 breaths/min

Breath detection 1% variation in CO<sub>2</sub> level

Accuracy ±1/min in the range  
4 to 20 breaths/min  
±5% in the range  
20 to 80 breaths/min

Resolution 1/min

Adjustable low and high limits for respiration rate; alarm for apnea

### Monitor compatibility

CARESCAPE™ modular monitors

B20(i), B40(i), B105 and B125 Patient Monitors

Displayed data trends and alarms may vary depending on the host device. Specifications listed represent the capabilities of the modules. All monitors may not be available in all countries. Always check the host device's User Manual for additional information.

## Performance specifications

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Functional alarms for

- Disconnected water trap
- Partially blocked sample line or water trap
- Low gas sampling flow
- Blocked sample line or water trap
- Blocked sample gas outflow

## Environmental specifications

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### Operating conditions

Temperature 10 to 40°C (50 to 104°F)

Relative humidity 10 to 95% RH non-condensing

Ambient pressure 500 to 800 mmHg  
(666 to 1060 mbar)

### Storage conditions

Temperature -25 to 70°C (-13 to 158°F)

Relative humidity 10 to 95% RH non-condensing

Ambient pressure 375 to 800 mmHg  
(500 to 1060 mbar)

## Physical specifications

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Dimensions (H x W x D) 112 x 37 x 209 mm  
(4.4 x 1.5 x 8.2 in)

Module weight 0.4 kg (0.88 lb)



## Imagination at work

Product may not be available in all countries and regions. Full product technical specification is available upon request. Contact a GE Healthcare Representative for more information. Please visit [www.gehealthcare.com/promotional-locations](http://www.gehealthcare.com/promotional-locations).

Data subject to change.

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DOC2030693 Rev 1 11/17