

Single-width Airway Module, E-miniC

For compact CO₂ sidestream respiratory monitoring



The E-miniC Module is a single-width, plug-in module. The module is intended for use for patients weighing over 5 kg (11 lb) only.

Features

- CO₂ side-stream measurement done at the patient's airway
- Very small and reliable measurement technology
- Inspired and end-tidal CO₂ 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 CO₂
- Adjustable high and low alarm limits for EtCO₂ and FiCO₂
- Manual adjustment for N₂O and O₂ allowed for improved CO₂ measurement accuracy
- Accommodates water separation system which is lightweight, and has good tolerance for tilting



Technical specifications

General

Sampling rate 150 ±25 ml/min

Displayed values updated breath by breath

Manual O₂ and N₂O compensation allowed to improve CO₂ measurement accuracy

- When manual O₂ compensation is not activated (O₂ concentration 40% to 95%), CO₂ reading decreases <0.3 vol%
- When the manual compensation for O₂ is activated (O₂ concentration 40 to 95%), the error in the CO₂ reading is < 0.15 vol%
- When manual N₂O compensation is not activated (N₂O concentration 40 to 80%), CO₂ reading increases < 0.8 vol%
- When the manual compensation for N₂O is activated (N₂O concentration 40 to 80%), the error in the CO₂ 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 (CO₂)

EtCO₂ End-tidal CO₂ concentration

FiCO₂ Inspired CO₂ concentration

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

Accuracy CO₂ concentration 0 to 15 vol%
±(0.2 vol% + 2 % of reading)
CO₂ concentration 15 to 20 vol%
±(0.7 vol% + 2 % of reading)

Rise time < 300 ms with nominal flow

Adjustable low and high limits for EtCO₂ or FiCO₂

Respiration rate (RR)

Measurement range 4 to 80 breaths/min

Breath detection 1% variation in CO₂ level

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

Resolution 1/min

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

Monitor compatibility

CARESCAPE modular monitors

AS/3, CS/3 and S/5 modular monitors using software L-ANE02(A), L-ICU02(A) or later versions

Performance specifications

Functional alarms Blocked sample line, water trap replacement, water trap check, low gas sample flow

Environmental specifications

Operating conditions

| | |
|--------------------------------|---------------------------------------|
| Temperature | 10 to 40°C (50 to 104°F) |
| Relative humidity | 10 to 95% non-condensing |
| Atmospheric pressure variation | 500 to 800 mmHg (666 to 1060 mbar) |

Storage conditions

| | |
|-------------------|----------------------------|
| Temperature | -25 to 70°C (-13 to 158°F) |
| Relative humidity | 10 to 95% non-condensing |

Physical specifications

| | |
|------------------------|--|
| Dimensions (H x W x D) | 11.2 x 3.7 x 20.9 cm (4.4 x 1.5 x 8.2 in) |
| Module weight | 0.4 kg (0.9 lb) |

Warranty

One year

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Our “healthymagination” vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality and efficiency around the world.

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