

# CAP201

## Sidestream capnography module



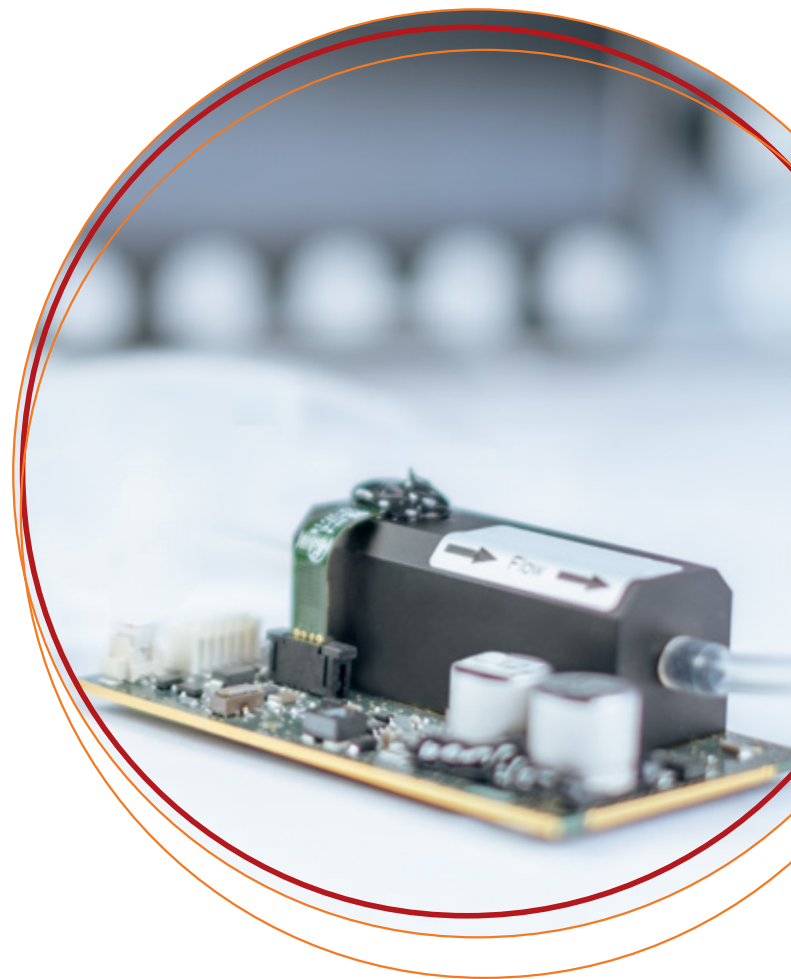
Integrate our established OEM sidestream capnography module in your medical device and monitor the CO<sub>2</sub> concentration in the patient's breathing air. With CAP201 CLINIC, CAP201 EMERGENCY and CAP201 MRI, Corscience offers optimized versions – customized to the specific requirements of clinics, emergency services and MRI.

### FEATURES

- High accuracy sidestream CO<sub>2</sub> measurement
- Low energy consumption and small footprint
- Calculation of fiCO<sub>2</sub>, etCO<sub>2</sub> and breathing rate
- Compensation of aging and environmental effects
- Occlusion and breathing detection

### YOUR BENEFITS

- Reliable monitoring of non-intubated and intubated patients
- Flexible UART level and wide supply voltage for easy integration
- Optimized versions for use in clinical, emergency and MRI surroundings
- Development kit available
- Compatible pump as accessory
- Customization on request



**BETTER HIGHTECH.  
BETTER HEALTH.**

| TECHNICAL INFORMATION  | CLINIC  | EMERGENCY   | MRI   |
|--|---|---|---|
| Measurement range:   | 0 vol% to 16 vol%                                       |   |   |
| Measurement accuracy (better than required by ISO 80601-2-55): | In range<br>0 vol% to 3.7 vol%:<br>± 0.26 vol%          | In range<br>0 vol% to 8 vol%:<br>± (0.26 Vol % + 5 % of real concentration) |   |
|  | In range<br>> 3.7 vol%: ± 7 % of real<br>concentration  | In range<br>8 vol% to 16 vol%:<br>± (0.43 vol% + 8 % of real concentration) |   |
| Breathing rate range:  | 3 to 150 breaths/min                                    |   |   |
| CO <sub>2</sub> value output rate:                             | 8 Hz or 40 Hz (selectable)                              |   |   |
| Measurement resolution:  | 0.1 vol%  |   |   |
| CO <sub>2</sub> units:   | partial pressure in kPa and mmHg, concentration in vol% |   |   |
| Rise time T10-90:  | < 150 ms @ 80 ml / min                                  |   |   |
| Calibration period (field):                                    | Optional, not necessary                                 |   |   |
| Start-up time (warm-up):                                       | < 5 s   |   |   |
| Average power consumption:                                     | 1.0 W (+ 0.3 W with pump)                               |   |   |
| Operating temperature:   | + 5 °C to + 45 °C                                       | - 10 °C to + 65 °C  |   |
| Humidity level:  | 5 % to 95 %, non-condensing                             |   |   |
| Air pressure level:  | 700 hPa to 1100 hPa                                     | 540 hPa to 1200 hPa   |   |
| Size of board:   | 70 mm x 40 mm x 26 mm (LxWxH)                           |   |   |
| Weight:  | 69 g (incl. pump)                                       |   |   |
| Suitable for MRI environment:                                  | no  |   | yes, in 1.5 T and 3 T environment with up to 250 mT at the module |

## APPLIED STANDARDS

IEC 60601-1-12:2014

ISO 80601-2-55:2018

EN 1789:2007

RoHS / REACH

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## ABOUT CORSCIENCE

Corscience GmbH & Co. KG is the one-stop shop and engineering specialist for medical technology. We develop and produce OEM modules and products which help people and save lives.