



CAP201

Sidestream capnography module

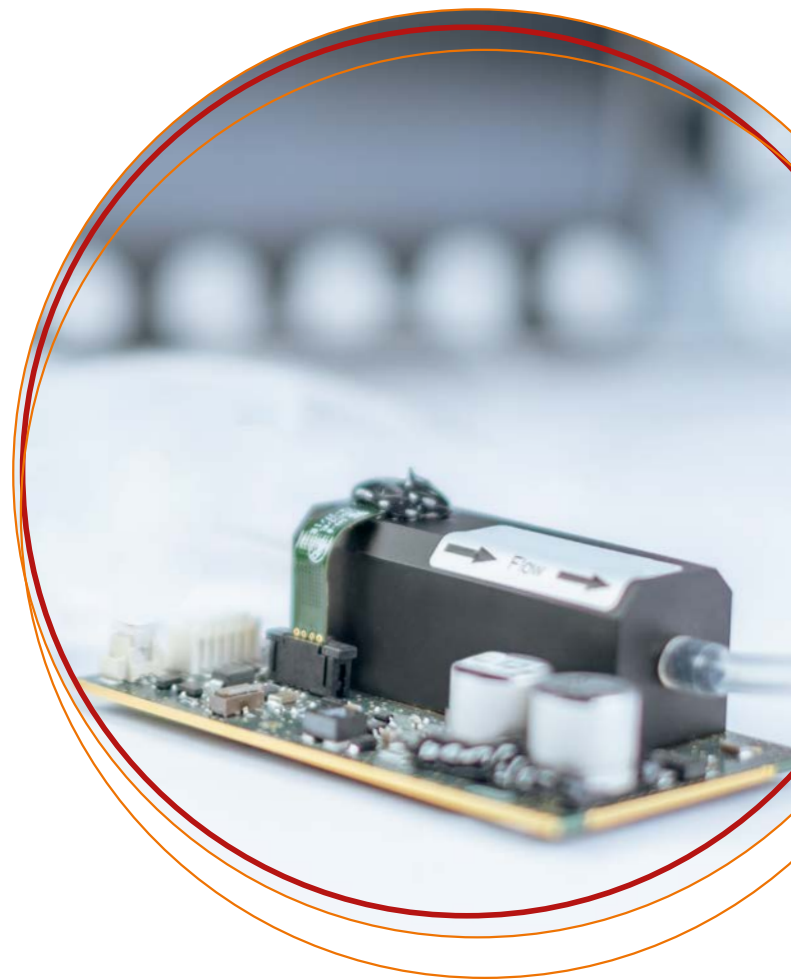
Integrate our established OEM sidestream capnography module in your medical device and monitor the CO₂ concentration in the patient's breathing air. With **CAP201 CLINIC**, **CAP201 EMERGENCY** and **CAP201 MRI**, Corscience offers optimized versions – customized to the specific requirements of clinics, emergency services and MRI.

FEATURES

- High accuracy sidestream CO₂ measurement
- Low energy consumption and small footprint
- Calculation of fiCO₂, etCO₂ and breathing rate
- Compensation of aging and environmental effects
- Occlusion and breathing detection
- No recalibration in field required

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
- Compatible pump as accessory



Defibrillation solutions. Faster.

TECHNICAL INFORMATION	CLINIC	EMERGENCY	MRI
Measurement range:	0 vol% to 16 vol%		
Measurement accuracy (better than required by ISO 80601-2-55):	In range 0 vol% to 3.7 vol%: ± 0.26 vol%	In range 0 vol% to 8 vol%: ± (0.26 Vol % + 5 % of real concentration)	
	In range > 3.7 vol%: ± 7 % of real concentration	In range 8 vol% to 16 vol%: ± (0.43 vol% + 8 % of real concentration)	
Breathing rate range:	3 to 150 breaths/min		
CO ₂ value output rate:	8 Hz or 40 Hz (selectable)		
Measurement resolution:	0.1 vol%		
CO ₂ 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*

DIN EN 60601-1-12:2016

DIN EN 80601-1-55:2018

EN 1789:2014

DIN EN 60601-1-2:2015

* This product was developed to meet the listed standards, which must be evaluated in the overall system.

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ABOUT CORSCIENCE

Corscience is the manufacturer-independent partner for defibrillation. We offer engineering services from the idea to development and the final regulatory approval as well as established and customizable solutions.