

Mainstream CO₂ Sensor one channel



Sensor is intended to measure FiCO₂ and EtCO₂ concentration in the mainstream breathing. Designed to use with medical devices for intensive care, ventilation, respiratory support and patient monitoring. The sensor is applicable for all intubated patients from adults to neonates.

Sensor Benefits:

- intended to measure FiCO₂ and EtCO₂ concentration in the mainstream breathing designed to use with medical devices for intensive care, ventilation, respiratory support and patient monitoring
- 100 Hz sampling rate and 10 ms response deliver the most accurate, diagnostic-grade capnography waveform
- ready to use out of the box—no user calibration or maintenance required
- reusable polycarbonate/sapphire airway adapters withstand up to 100 sterilization cycles
- compact and lightweight
- for all patient groups

Technical Specification

Sensor type	CO ₂ mainstream sensor
Operation principle	Non-dispersive infrared (NDIR)
Initialization time	20 s at an ambient temperature of 25° Full specification within 2 min
Response time	~10 ms
CO ₂ measurement range	0 – 20% (0 –150 mmHg)
CO ₂ accuracy	0.2 vol. %
CO ₂ resolution	0.1 vol. %
Respiration rate range	0 – 200 breath per minute (BPM)
Respiration rate accuracy	±1 breath
Apnea detection range	10–60 s, default 20 s
Calibration	No user calibration required
Airway adapters	Reusable adult / pediatric. Reusable pediatric / neonate Material: airway adapter — polycarbonate, optical windows — sapphire glass Dead space: <5 ml (adult / pediatric), <1 ml (pediatric / neonate) Sterilization: ethylene oxide / autoclaving up to 100 times
Dimensions & Weight	Sensor: 38x35x23 mm. Weight: 28 g. Cable length: 3 m
Power	Voltage: 5.0 V±5%. Power consumption: 1.3 W, not more than 3 W at the warm-up
Environment / Protection	Water and splash resistance: IP44 (sensor) Operation: 10 – 35°C, RH 10 – 90%, 390 – 900 mmHg Storage: 5 – 40°C, RH < 80% at 25°C Transportation: (–50)°C–50°C
Integration	Interface: RS-232. Connector: Lemo Redel / ODU Data output: FiCO ₂ , EtCO ₂ , respiration rate. Gas and pressure compensation: available, supplied by host

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