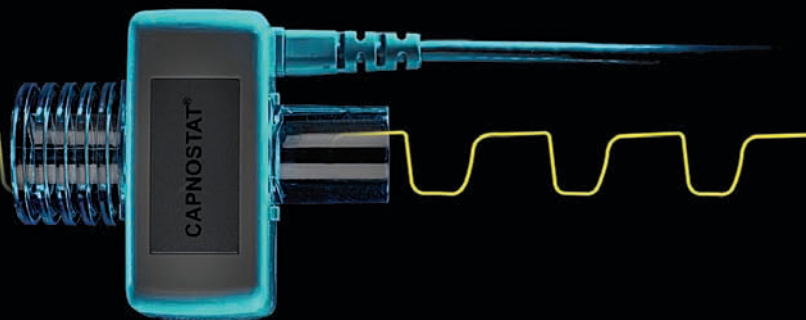


CAPNOSTAT Mainstream CO₂ Sensor



co₂nnect & GO

Breathe easier.



Cutting edge CO₂ technology for patients in the ICU, OR and EMS applications.

CAPNOSTAT CO₂ Sensor – Lightweight. Rugged. Reliable.

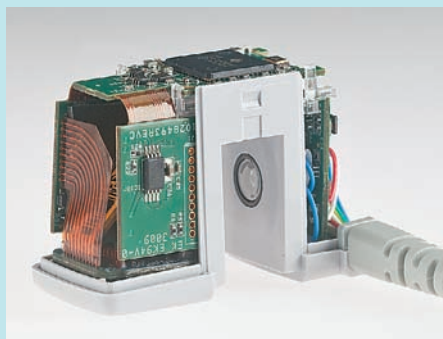
As the recognized global leader in mainstream capnography, Respironics has been providing innovative and cost effective solutions for over 20 years. The CAPNOSTAT sensor is the ideal capnography solution for your monitoring needs.

Respironics provides comprehensive technical, clinical, and marketing support to help meet the growing requirements of your business.

PRODUCT FEATURES:

- Preferred choice for intubated patients
- Rugged, solid state with no moving parts
- Lightweight & compact design
- Fast, accurate on airway measurement
- No calibration required
- Disposable & reusable airway adapters for all patients
- Private label option

It's all inside!



Integration made easy!

There is no need to take up valuable space inside your monitoring system because all of the electronics are located inside the CAPNOSTAT head. Only communication and power is essential to get you started.



Exclusive mask option!

Measure ETCO_2 and administer a wide range of oxygen concentrations to non-intubated patients.

Complete OEM solutions

The CAPNOSTAT sensor is just one of the many solutions we offer to our OEM customers. Respironics customizes innovative products along with providing comprehensive technical, clinical, and marketing support to help meet the growing needs of your business.

CAPNOSTAT Mainstream CO_2 Sensor - Specifications

TRANSDUCER TYPE	MAINSTREAM CO_2 SENSOR	
Principle of Operation	Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts	
Initialization Time	Capnogram, displayed in less than 15 seconds, at an ambient temperature of 25°C, full specifications within 2 minutes	
CO_2 Measurement Range	0 to 150 mmHg, 0 to 19.7%, 0 to 20 kPa	
Rise Time	Less than 60 ms - Adult Reusable or Single Patient Use Airway Adapter Less than 60 ms - Infant Reusable or Single Patient Use Airway Adapter	
CO_2 Resolution	0.1 mmHg 0.25 mmHg	0 to 69 mmHg 70 to 150 mmHg
CO_2 Accuracy	0 – 40 mmHg 41 – 70 mmHg 71 – 100 mmHg 101 – 150 mmHg	±2 mmHg ±5% of reading ±8% of reading ±10% of reading
CO_2 Stability	Short term drift: Drift over four hours shall not exceed 0.8 mmHg maximum Long term drift: Accuracy specification will be maintained over a 120-hour period	
CO_2 Noise	RMS noise of the sensor is less than or equal to 0.25 mmHg at 7.5% CO_2	
Sampling Frequency	100 Hz	
Respiration Rate Range	0 to 150 Breaths Per Minute (BPM)	
Respiration Rate Accuracy	±1 breath	
Compensations (Supplied by Host)	Barometric pressure: 400 mmHg to 850 mmHg Operator selectable O_2 , N_2O , HE and agent compensation	
Calibration	No routine user calibration required. An airway adapter zero is required when changing to a different style of airway adapter	
Airway Adapters	Single patient use or reusable, < 5 cc deadspace (Adult), < 1 cc deadspace (Infant) Adapter taper meets ISO 5356-1	
Voltage Requirements	5.0VDC ±5%	
Power Rating	Rated input: 1.1 Watts typical, steady state Up to 1.5 Watts maximum on power up (warm up)	
Interconnection	Standard – Lemo Redel 8-pin plastic LoFlo and CAPNOSTAT are interchangeable with the host monitor Common connector allows easy exchange between mainstream and sidestream monitoring	
Temperature and Humidity	Operating: 0 to 45°C, 10 to 90% RH, non-condensing Storage: -40 to 70°C, <90% RH, non-condensing	
Water Resistance	IPX4 – Splash-proof (sensor head only)	
Shock Impact	IEC TR 60721-4-7 Class 7M3 (designed to withstand environments subject to significant vibrations or high shock levels) EN60068-2-6 sinusoidal vibration EN60068-2-27 shock EN60068-2-64 random vibration Able to withstand repeated 6-foot drops onto tiled floor while operating	
Data Interface	RS232 compatible, bi-directional, 19200 baud, standard N-8-1	
Data Output	CO_2 gas concentration (mmHg), end-tidal CO_2 , inspired CO_2 , respiratory rate Gas and barometric pressure compensated when supplied by host	
Regulatory	Designed to meet IEC 60601-1-2, EN55011 – CISPIR II Class B (Radiated and Conductive Emissions), IEC 61000-4-2 Electrostatic Discharge Immunity, IEC 61000-4-3 Radiated Immunity Designed to comply with 93/42/EEC (MDD CE Marking), FDA Standards and ISO21647, Medical Electrical Equipment performance requirements for the basic safety and essential performance of respiratory gas monitors	

RESPIRONICS

Envisioning tomorrow. Improving today.

For more information, visit <http://oem.respironics.com>
or call the OEM team at 1.800.243.3444, Option 3 or 203.697.6488

Specifications subject to change without notice. Customer is responsible for all regulatory approvals and market clearance.
CAUTION: US law restricts this device to sale by or on the order of a licensed medical practitioner.

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