

LoFlo Sidestream CO₂ Sensor



co₂nnect & go

Quick. Easy. Reliable.



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

LoFlo CO₂ Sensor – Flexible. Compact. Durable.

As a recognized global leader in capnography, Respironics has been providing innovative and cost effective solutions for over 20 years. The LoFlo sensor is the ideal capnography solution for all your CO₂ monitoring requirements. Respironics provides comprehensive technical, clinical, and marketing support to help meet the growing needs of your business.

PRODUCT FEATURES:

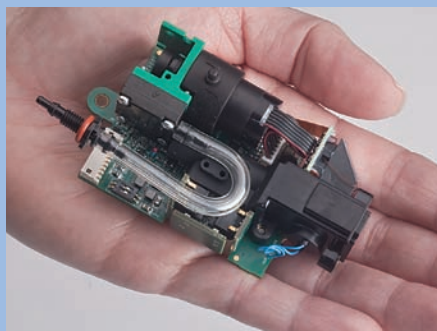
- Ideal for non-intubated patients
- Proprietary sample cell protects internal NDIR components from contamination
- Common connector allows easy exchange between mainstream and sidestream monitoring
- Robust and long life pump reduces periodic maintenance
- No calibration required
- Unique accessories & supplies for all patients
- Private label option



To Purchase, Visit Avobus.com or call [1-800-674-3655](tel:1-800-674-3655)

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Envisioning tomorrow. Improving today.

Internal or External Application...



Respironics offers the LoFlo engine for internal integration into your monitoring system.



It's your choice!

The LoFlo sensor's small, lightweight package is designed to be shared. It is easily moved from room to room to connect to your device or during transport.

Mounting Options!

Mount the sensor to a bed rail, IV pole, or leave as part of the system cabling.



Complete OEM solutions

The LoFlo 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 for the growing

LoFlo CO₂ Sensor – Specifications

TRANSDUCER TYPE	SIDESTREAM CO ₂ SENSOR	
Sample Flow Rate	50 mL/minute ±10 mL/minute	
Principle of Operation	Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts	
Initialization Time	Capnogram, displayed in less than 20 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	
CO ₂ Resolution	0.1 mmHg	0 to 69 mmHg
	0.25 mmHg	70 to 150 mmHg
CO ₂ Accuracy	0 – 40 mmHg	±2 mmHg
	41 – 70 mmHg	±5% of reading
	71 – 100 mmHg	±8% of reading
	101 – 150 mmHg	±10% of reading
	Above 80 BPM	±12% 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 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 800 mmHg	
	Operator selectable O ₂ , N ₂ O, HE and agent compensation	
Calibration	No routine user calibration required	
Sample Cell/Filter	Proprietary single patient use sample cell and inline filter are integrated with the sample line which effectively eliminates contamination of the internal system	
Nasal Sampling Kits for Non-intubated Patients	Nasal CO ₂ or CO ₂ with O ₂ delivery (Adult, Pediatric, Infant-Neonatal)	
	Nasal/Oral CO ₂ or CO ₂ with O ₂ delivery (Adult, Pediatric)	
Airway Adapter Kits for Intubated Patients	Adult/Pediatric with and without dehumidification tubing	
	Pediatric/Infant, low deadspace, with and without dehumidification tubing	
Sample Kit Hours of Use	Taper meets ISO 5356-1	
	Nasal and Oral/Nasal Cannulas without nafion – up to 12 hours	
	Nasal and Oral/Nasal Cannulas with nafion – up to 120 hours	
	Airway Adapter Kits without nafion – up to 12 hours	
Airway Adapter Kits with nafion – up to 120 hours		
Sample Cell Detection	Insertion automatically turns sampling pump on. Removal automatically turns sampling pump off	
Flow Control	Via ΔP measurement across a capillary tube	
Scavenging Port	Yes	
Voltage Requirements	5.0VDC ±5%	
Power Rating	Rated input: Less than 1.3 Watts typical	
	Steady state less than 2.0 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 40°C, 10 to 90% RH, non-condensing	
	Storage: -40° to 70°C, <90% RH, non-condensing	
Water Resistance	IPX4 – Splash-proof (When sample cell is inserted in sample cell receptacle)	
Shock Impact	IEC TR 60721-4-7 Class 7M3 (designed to withstand environments subject to significant vibrations or high shock levels)	
	EN60068-2-27 shock	
	EN60068-2-64 random vibration	
Data Interface	RS232, bi-directional, 19200 baud, standard N-8-1	
Data Output	CO ₂ gas concentration (mmHg), end-tidal CO ₂ , inspired CO ₂ , respiratory rate	
Regulatory	Gas and barometric pressure compensated when supplied by host	
	Designed to meet IEC 60601-1-2, EN55011 – CISPR 11 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, ISO21647, and Medical Electrical Equipment performance requirements for the basic safety and essential performance of respiratory gas monitors	

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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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