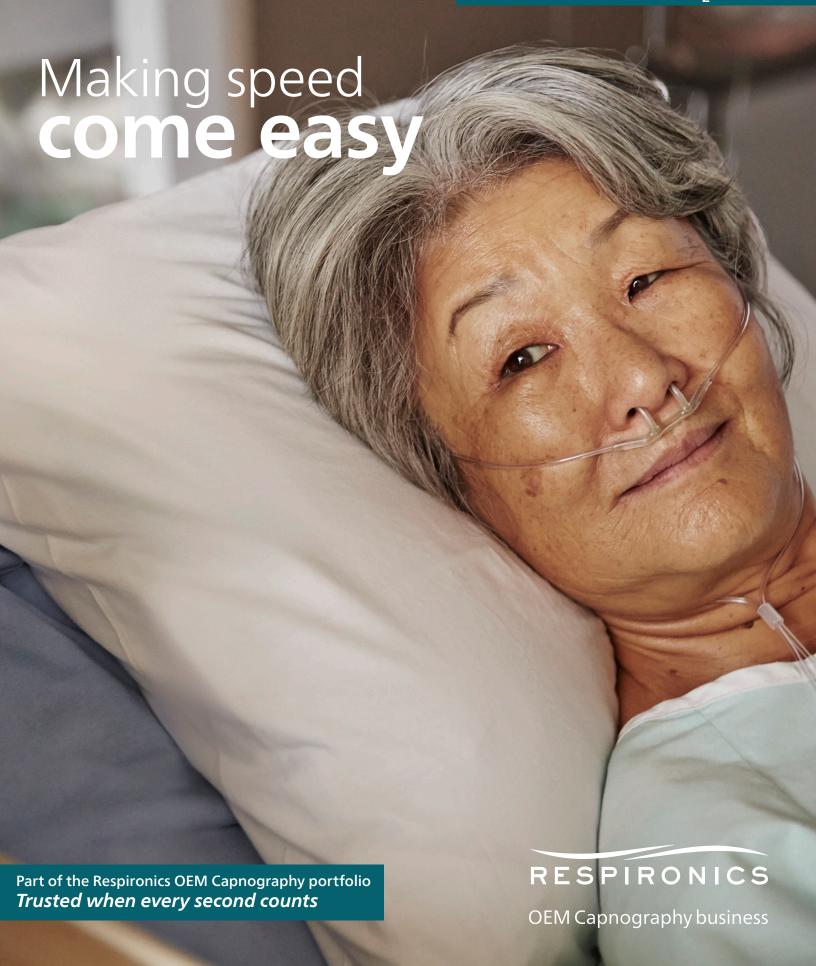
LoFlo Sidestream CO₂ Module



Versatility across applications

Versatile and adaptable, respiratory monitoring is critical in enabling clinicians to provide optimal care when every second counts. As a patient's condition evolves and they transition from a ventilator to breathing on their own, switching from a mainstream measurement to the **LoFlo Sidestream CO**₂ module makes it easy for clinicians to continue monitoring respiratory efficiency without delay.

Product features:

- Can be used in non-intubated patients
- ✓ Simple one-click insertion of accessories into module
- ✓ Proprietary sample cell protects internal components from aspiration of fluids
- Common connector allows for easy transition between mainstream and sidestream monitoring
- ✓ Long-life pump (24,000-hour pump life)
- ✓ No calibration required
- ✓ Unique accessories and supplies based on patient condition



Easy connection to your device

Provide outstanding CO_2 technology without sacrificing the design of your monitoring and ventilation system. The **LoFlo Sidestream CO_2** can be easily connected to your device.

Wherever care is needed, LoFlo is there

The **LoFlo Sidestream CO₂** module is easily mountable on bed rails and IV poles, so it's always on hand to help monitor patients' respiration in real time. Its compact and lightweight design makes it easy to go where care is needed – whether that's transitioning between care areas or accompanying a patient during transport.

Trusted partners in innovation

The **LoFlo Sidestream CO₂** module is one of the many advanced technologies within our portfolio. Explore the entire suite of solutions at www.respironics-capno.com.

The Respironics OEM Capnography business is a dedicated partner, helping medical device manufacturers create innovative solutions that make their products stand out. With comprehensive technical, clinical, and marketing support, we're here to meet the evolving needs of your growing business.





LoFlo Sidestream CO₂ Module

LoFlo Sidestream CO₂ Module – Specifications

TRANSDUCER TYPE	SIDESTREAM CO₂ MODULE
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 with 5% CO ₂
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	1 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_2O , 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 Taper meets ISO 5356-1
Sample Kit Hours of Use	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	5.0 VDC ±5%

LoFlo Sidestream CO₂ Module – Specifications

TRANSDUCER TYPE	SIDESTREAM CO₂ MODULE
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)
Mechanical Environment	IEC TR 60721-4-7 Class 7M3 IEC 60068-2-64 Random Vibration (Refer IEC 62366-1 (EN 62366-1)§ 4.1.1) IEC 60068-2-27 Shock IEC 60068-2-31 With a operational drop of 3ft IEC 60601-1 (EN 60601-1) §15.3.4.1 IEC 60601-1 (EN 60601-1) 15.3.2 IEC 60601-1 (EN 60601-1) 15.3.3 Cable can withstand a pull of 30 lbs Cable can withstand 10,000 bend cycles
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 Gas and barometric pressure compensated when supplied by host





OEM Capnography business



Caution: U.S. federal law restricts these devices to sale by or on the order of a physician.

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