



## Technical Specifications

Technology	Mainstream (Capnostat5)	Sidestream (LoFlo)	Sidestream (CapnoTrak)
Transducer Type	Mainstream CO2 Sensor	Built-in Sidestream Sensor	Diverging Sidestream using internal pump
Principle of Operation	Non-dispersive Infrared (NDIR), Single Beam, Dual wavelength		
Initialisation Time	Capnogram displayed in less than 15 seconds at an ambient temperature of 25°C, full specifications within 2 minutes	Capnogram displayed in less than 20 seconds, at an ambient temperature of 25°C, full specifications within 2 minutes	Capnogram displayed in less than 10 seconds, at an ambient temperature of 25°C, full specifications within 3 minutes
Range (etCO2)	0 to 150 mmHg (0 to 19.7 %Vol, 0 to 20 KPa) (at 760mmHg)	0 to 150 mmHg (0 to 19.7 %Vol, 0 to 20 KPa) (at 760mmHg)	0 to 99 mmHg (0 to 13.03 %Vol, 0 to 13.2 KPa) (at 760mmHg)
Accuracy (etCO2)	±2 mmHg - 0 to 40mmHg ±5% of reading - 41 to 70 mmHg ±8% of reading - 71 to 100 mmHg ±10% of reading - 101 to 150 mmHg	±2 mmHg - 0 to 40mmHg ±5% of reading - 41 to 70 mmHg ±8% of reading - 71 to 100mmHg ±10% of reading - 101 to 150 mmHg ±12% of reading - Above 80bpm Resp.	±2 mmHg - 0 to 38mmHg ±10% of reading - 38 to 99 mmHg ±12% of reading - Above 80bpm Resp.
Respiration Rate Range	0 to 150 Breaths Per Minute (BPM)	2 to 150 breaths per minute (bpm)	2 to 100 breaths per minute (bpm)
Respiration Rate Accuracy	±1 breath	±1 breath	±1 breath
Resolution	1 bpm	1 bpm	1 bpm
Calibration	No routine user calibration required. Zero Cal is required when changing airway adapter	No routine user calibration required	No routine user calibration required
Sample Cell/Filter	No water trap/filter necessary	Proprietary sample cell and inline filter are integrated with the sample line	Water Filter assembly, with Nafion Dehumidification Tubing

### Capnogram

Wave Speed	3.12, 6.25, 12.5 mm/sec
Display type	Line or Fill
Wave Freeze	Scrolling available for previous 5 Screens

<b>Averaging</b>	Breath-to-Breath, 4 Breaths, 8 Breaths
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<b>Apnea</b>	Delay of 10, 20 and 30 secs.
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<b>Alarms</b>	Limit Violation, Apnea, Various System Failures
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<b>Silence</b>	2 min Silence and Permanent Silence
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Alarm Ranges	High	Low	
etCO <sub>2</sub> (mmHg)	1 to 150	0 to 149	(in 1mmHg steps)
iCO <sub>2</sub> (mmHg)	1 to 50	0 to 49, Off	(in 1mmHg steps)
Respiration (bpm)	5 to 150	0 to 145	(in 5 bpm steps)

### Displays, Indicators & Keys

Red LED Display 0.4"	etCO <sub>2</sub>
Amber LED Display 0.4"	Respiration Rate
LCD Display	240x64 pixels, STN, Transmissive, Negative, White LED Backlight, Viewing Area 132.6x39.0mm, Display of Capnogram, Alarm Limits
Red LED 3mm	Battery
Green LED 3mm	Charging
Keys	On/Off, Menu, Up, Down, Cancel, Waveform/Trend, Freeze, Silence

### Memory Trends (available on Display & Printing)

Past Trends of etCO <sub>2</sub> , iCO <sub>2</sub> & Respiration Rate for 72 hours (3 days)
Trends available on Display - 15min, 1hr, 2hrs, 4hrs & 8hrs
Past Trends of 1000 Alarm Violations

### Printing (available on any Parallel Printer)

Real Time (etCO <sub>2</sub> , iCO <sub>2</sub> & Respiration Rate) at 1 min. intervals
Past Trends of 72 hours (3 days)

### Power Requirements

Battery	Rechargeable Built-in Sealed Lead Acid Battery
Charging Time	8 hours
Battery Backup	3 hours
AC Mains	240 ± 10% Vac, 50 Hz, 10VA Max.

### Dimensions

Width	Height	Depth	Weight
10.20"	3.85"	6.70"	2.0 kgs
(260mm)	(98mm)	(170mm)	(4.4 lbs)

### Environmental Specifications

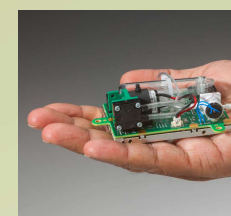
Temperature	0 to 40 deg. C (Operating), -40 to 70 deg.C (Storage)
Relative Humidity	15 to 90% (Operating), < 90 % (Storage) Non-condensing
Barometric Pressure	400-800 mmHg (Operating), 375-795 mmHg (Storage)

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EMCO CapnoWave 3400 is an economical, stand-alone, light weight, bedside and portable Capnograph Monitor which measures End Tidal CO<sub>2</sub> (etCO<sub>2</sub>), Inspired CO<sub>2</sub> (iCO<sub>2</sub>) and Respiration Rate (RR). It is based on the latest state-of-art Plug & Play technology from Respironics Inc., USA.



Model 3400T (CapnoTrak)



### Sidestream Inbuilt (CapnoTrak)<sup>®</sup>

- Economical Sidestream CO<sub>2</sub> Inbuilt sensor that provides reliable CO<sub>2</sub> monitoring of patients from neonates to adults
- Low sampling rate of 50 ml, useful in non-intubated & intubated patients, especially for ICU, PICU, Operating Rooms

### Features of CapnoWave 3400

- Plug & Play Technology from Respironics Inc., USA
- Measurement of etCO<sub>2</sub>, iCO<sub>2</sub> & Respiration

### Capnograph features

- Useful for Intubated & Non-intubated patients
- Alarms for Limit Violations & Apnea
- O<sub>2</sub>/N<sub>2</sub>O/Helium/Anaesthetic Agents Compensation
- 3 measurement units - mmHg, %Vol, KPa

### General features

- 4 Waveform Speeds - 3.12, 6.25, 12.5 & 25 mm/sec
- Trends for 72 hours with scrolling
- Built-in Rechargeable Battery Back-up of 2 hours.
- Low Battery Audio & Visual Alarm
- Ideally suited for Laparoscopy, Neuro OT, Gen. OT, ICU, NICU, PICU



At the heart of healthcare

**Factory :**  
Luna Road, Post Dabhasa,  
Taluka Padra, District Baroda - 391440, India  
Phone : +91-2662-223397 / 98  
Fax : +91-2662-223397  
E-mail : emcomeditek@gmail.com

**Head Office :**  
Unit No. 109, Vasan Udyog Bhavan  
Off Senapati Bapat Marg, Lower Parel, Mumbai 400013  
Phone : +91-22-24903653, 24923634  
Website : http://www.emcomeditek.com  
Corporate Identity Number (CIN) : U32109MH1989PTC053525

Specifications subject to change without prior notice.

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# EMCO CapnoWave 3400



Plug & Play CO<sub>2</sub> from **Respironics Inc., USA** RESPIRONICS®

## Model 3400M (Mainstream)



### Mainstream Sensor (CAPNOSTAT 5)®

- Small lightweight mainstream CO<sub>2</sub> sensor provides accurate and reliable monitoring for all intubated patients from neonates to adults
- Useful in Long-term Ventilator Management, verification of proper ET tube placement, Confirmation of ET tube stability during transport

## Model 3400S (Sidestream)



### Sidestream Sensor (LoFlo)®

- LoFlo is the newest 50 ml sampling rate CO<sub>2</sub> sensor that provides consistent and reliable CO<sub>2</sub> monitoring of adult, pediatric and neonatal patients.
- Useful in monitoring the effects of pain-controlled analgesia, monitoring respiratory efforts during procedural sedation, safety monitor post-extubation, screening tool in the ED for respiratory complications such as asthma.

# EMCO CapOxi 2060C



## PULSE OXIMETER with CAPNOGRAPH

EMCO CapOxi 2060C is a Pulse Oximeter with Capnograph which is a combination of CO<sub>2</sub> technology from Respironics Inc., USA and SPO<sub>2</sub> technology from Nonin Medical Inc., USA

### Oximeter features

- 3 colour Perfusion LED displays the perfusion status  
Green (good perfusion), Orange (marginal perfusion) & Red (inadequate perfusion)
- Pulse Beep is sounded for every detected pulse, with the tone varying according to SpO<sub>2</sub> value
- Sensor Alarm indicates that the sensor has been disconnected either from patient or from oximeter
- Ten segment bargraph indicates pulse strength
- Wide range of sensors available with most of the sensors having 3 meter cable lengths

### Oximeter Specifications

<b>SpO<sub>2</sub></b>	Range	0 to 100%
	Accuracy	±2 digits at 70-100%
	Averaging	4,8,16 beat - automatic
	Sensors	Adult Finger, Paediatric Finger & Universal 'Y'
<b>Pulse</b>	Range	18 to 300 bpm
	Accuracy	±3% ±1 digit
	Averaging	8,16, 32 beat - automatic
<b>Pulse Beep</b>	Tone Changes with SpO <sub>2</sub> value	