

# Avante Echo CO<sub>2</sub>

## Capnography Monitor

### Effective Capnography Monitoring (EtCO<sub>2</sub>)

The Avante Echo Capnography Monitor provides cost-effective EtCO<sub>2</sub> monitoring with accuracy and durability. The Echo CO<sub>2</sub> ensures effective monitoring for intubated and non-intubated patients for continuous long-term monitoring. It is tailored for mechanically ventilated and non-intubated patients. Nellcor SpO<sub>2</sub> available as an additional option.

#### FEATURES

- › 5.7 inch high resolution display for easy reading
- › Lightweight, portable design and user-friendly interface for easy operation
- › Flexible configurations to meet different clinical needs
- › Optional — Nellcor SpO<sub>2</sub>
- › PR measurement
- › Respirationics Loflo sidestream or CAPNOSTAT 5 EtCO<sub>2</sub> mainstream measurement
- › Powerful storage capacity
- › Real-time parameters measurement display with trend table for easy reviewing
- › Built-in rechargeable Lithium-ion battery for 10 hours continuous working
- › Bi-directional communications with central station by wired or wireless network
- › Nurse call
- › Suitable for adult, pediatric and neonatal patient



#### SPECIFICATIONS



**Weight:** 6.6 lbs (3 kg)



**Dimensions:**  
7.9 x 9.49 x 7.44 in  
(200.8 x 241 x 189 mm)

**Display Size:**  
5.7 in

**Record Width:**  
1.89 in (48 mm)



**Power Supply:**  
100-240 VAC, 50/60Hz

**Battery Type:**  
Lithium-ion

**Voltage:**  
14.8 V DC

**Capacitance:**  
4,400 mAh



**Color TFT Resolution:**  
640X480

**Working Period:**  
Color TFT 480min

**Rechargeable Period:**  
< 360min

**Paper Speed:**  
25mm/s

**Thermal Recorder:**  
Optional

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# Respironics CO<sub>2</sub>

## Sidestream

### Sample Rate:

50 mL per minute

### CO<sub>2</sub> Measurement Range:

0 - 150 mm Hg, 0 to 20 kPa (at 760 mm Hg).

Barometric Pressure supplied by Host

### CO<sub>2</sub> Resolution:

0.1 mm Hg 0 to 69 mm Hg

0.25 mm Hg 70 to 150 mm Hg

### CO<sub>2</sub> Accuracy:

0 - 40 mm Hg  $\pm 2$  mm Hg

41 - 70 mm Hg  $\pm 5\%$  of reading

71 - 100 mm Hg  $\pm 8\%$  of reading

101 - 150 mm Hg  $\pm 10\%$  of reading

Above 80 bpm  $\pm 12\%$  of reading

### CO<sub>2</sub> Stability:

Short Term Drift: Drift over four hours shall not exceed 0.8 mm Hg max.

Long Term Drift: Accuracy specification will be maintained over a 120-hour period

### Respiratory Rate Range:

2 to 150 bpm

### Respiratory Rate Accuracy:

$\pm 1$  breath

### Sample Cell/Filter:

Proprietary single patient use sample cell and inline filter are integrated with the sample line which eliminates contamination of the internal system.

### Nasal Sampling Kits for Non-intubated Patients:

Adult, pediatric and infant nasal CO<sub>2</sub> sampling, nasal CO<sub>2</sub> sampling and O<sub>2</sub> delivery

Adult and pediatric nasal/oral CO<sub>2</sub> sampling, nasal/oral CO<sub>2</sub> sampling and O<sub>2</sub> delivery

### On-Airway Adapter KITS for Intubated Patients:

Adult/Pediatric with and without dehumidification tubing

Pediatric/Infant, low dead space, with and without dehumidification tubing

Taper meets ISO 5356-1

### Sample Kit Hours of Use:

Nasal Cannula (all styles) — up to 12 hours

On-Airway Adapter Kits without dehumidification tubing — up to 12 hours

### Sample Cell Detection:

Insertion automatically turns sampling pump on. Removal automatically turns sampling pump off.

### 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

## Mainstream

### CO<sub>2</sub> Measurement Range:

0 to 150 mm Hg, 0 to 19.7%

0 to 20 kPa (at 760 mm Hg)

### Rise Time:

Less than 60 ms Adult/Infant

Reusable or Single Patient Use Airway Adapter

### CO<sub>2</sub> Resolution:

0.1 mm Hg — 0 to 69 mm Hg

0.25 mm Hg —

70 to 150 mm Hg

### CO<sub>2</sub> Accuracy:

0-40 mm Hg —  $\pm 2$  mmHg

41 - 70 mm Hg —  $\pm 5\%$  of reading

101 - 150 mm Hg —  $\pm 10\%$  of reading

Above 80 bpm —  $\pm 12\%$  of reading

### Water Resistance:

IPX4-Splash-proof (sensor head only)

### CO<sub>2</sub> Stability:

Short Term Drift: Drift over four hours shall not exceed 0.8 mm Hg max.

Long Term Drift: Accuracy specification will be maintained over a 120-hour period

### Respiration Rate Accuracy:

$\pm 1$  breath

### Calibration:

No routine user calibration required. An airway adapter zero is required when changing to a different style of airway adapter

### Shock Impact:

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

## SpO<sub>2</sub> (Option, by Nellcor OxiMax)

### General

Measuring Range: 1 ~ 100%

Resolution: 1%

Alarm Range: 1 ~ 100%

### Accuracy

#### Adult (including Pediatric):

$\pm 2\%$  (70%~100% SpO<sub>2</sub>)

Undefined (0~70% SpO<sub>2</sub>)

#### Neonate:

$\pm 3\%$  (70%~100% SpO<sub>2</sub>)

Undefined (0~70% SpO<sub>2</sub>)

#### Pulse Rate:

Measuring and Alarm Range: 20 ~ 300 bpm

Resolution: 1 bpm

Accuracy: 3 bpm

