

Avante Echo CO₂

Capnography Monitor

Effective Capnography Monitoring (EtCO₂)

The Avante Echo Capnography Monitor provides cost-effective EtCO₂ monitoring with accuracy and durability. The Echo CO₂ 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 SpO₂ 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 SpO₂
- › PR measurement
- › Respiration Loflo sidestream or CAPNOSTAT 5 EtCO₂ 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

Respironics CO₂

Sidestream

Sample Rate:

50 mL per minute

CO₂ Measurement Range:

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

Barometric Pressure supplied by Host

CO₂ Resolution:

0.1 mm Hg 0 to 69 mm Hg

0.25 mm Hg 70 to 150 mm Hg

CO₂ Accuracy:

0 - 40 mm Hg ± 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

CO₂ 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:

± 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 CO₂ sampling, nasal CO₂ sampling and O₂ delivery

Adult and pediatric nasal/oral CO₂ sampling, nasal/oral CO₂ sampling and O₂ 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

CO₂ 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

CO₂ Resolution:

0.1 mm Hg — 0 to 69 mm Hg

0.25 mm Hg —

70 to 150 mm Hg

CO₂ Accuracy:

0-40 mm Hg — ± 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)

CO₂ 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:

± 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

SpO₂ (Option, by Nellcor OxiMax)

General

Measuring Range: 1 ~ 100%

Resolution: 1%

Alarm Range: 1 ~ 100%

Accuracy

Adult (including Pediatric):

$\pm 2\%$ (70%~100% SpO₂)

Undefined (0~70% SpO₂)

Neonate:

$\pm 3\%$ (70%~100% SpO₂)

Undefined (0~70% SpO₂)

Pulse Rate:

Measuring and Alarm Range: 20 ~ 300 bpm

Resolution: 1 bpm

Accuracy: 3 bpm

