

CAPNOSTAT[®] 5 capnography

Volumetric capnography goes beyond EtCO₂

Now you can have CO₂ measurements in a single, compact sensor that easily plugs into the AVEA[®] ventilator. Volumetric capnography, utilizing the new CAPNOSTAT[®] 5 sensor, adds an impressive array of advanced monitoring features.

CAPNOSTAT 5

- Small, durable and lightweight
- No calibration required
- On-airway measurement—immediate response

Volumetric capnography monitoring can help improve clinical outcomes.

1. Early and sustained elevations in physiologic Vd/Vt are associated with higher mortality in patients with acute respiratory distress syndrome (ARDS).¹
2. PEEP selection based on transpulmonary pressure and Vd/Vt in ARDS may help to avoid alveolar collapse and lung stress.²



CAPNOSTAT 5 sensor assembly



Single-patient-use and reusable airway adapters for infants, pediatrics and adults



Volumetric capnography upgrade kit

Technical specifications	
Principle of operation	The sensor measures CO ₂ by using the infrared absorption technique. A solid state, mainstream sensor with no moving parts means a less fragile device with less downtime.
Calibration	Routine calibration is not required. A 10-second adapter zero is performed when changing to a different style adapter.
CAPNOSTAT 5 sensor	Size: 1.38" x 1.89" x 0.91" (3.5 cm x 4.8 cm x 2.3 cm) 9.84 foot (3 m) cable standard Weight: 0.88 oz. (25 grams), cable excluded Compliant to the European Commission Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).
CO₂ accuracy and resolution	Accuracy: ±2 mmHg (for 0 to 40 mmHg) ±5% of reading (for 41 to 70 mmHg) ±8% of reading (for 71 to 150 mmHg) Resolution: 1 mmHg Response Time: Less than 60 ms
CO₂ measurement range	0 to 150 mmHg (0 to 20 kPa)
AVEA ventilator parameters	EtCO ₂ , VCO ₂ , VtCO ₂ , Vd ana, Vd/Vt ana, VA, Vd phy, Vd/Vt phy, Vd alv, Oxygenation Index, PaO ₂ /FiO ₂ ratio

 **WARNING**—U.S. Federal Law restricts this device to sale by or on the order of a physician.

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Please read the entire Instruction For Use materials that come with the product.

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Technical specifications (continued)	
Airway adapters - adult/pediatric (latex free)	Single-patient-use adult/pediatric (ETT > 4mm ID) Dead space: 5 mL Weight: 7.7 grams Resistance: 0.40 cmH ₂ O at 60 LPM Color: Clear Part number: 16605 (10/box) Reusable adult/pediatric (ETT > 4mm ID) Dead space: 5 mL Weight: 12 grams Resistance: 0.38 cm H ₂ O at 60 LPM Color: Black Part number: 16607 (1/box)
Airway adapters - infant/pediatric (latex free)	Single-patient-use infant/pediatric (ETT ≤ 4mm ID) Dead space: < 1 mL Weight: 9.1 grams Resistance: 0.74 cmH ₂ O at 10 LPM Color: Blue Part number: 16606 (10/box) Reusable infant/pediatric (ETT ≤ 4mm ID) Dead space: < 1 mL Weight: 14.9 grams Resistance: 0.68 cm H ₂ O at 10 LPM Color: Red Part number: 16608 (1/box)
Full capnography upgrade kit	Part number: 11732 Included: One CAPNOSTAT 5 cable (P/N 27695-001) One box of single-patient-use pediatric/adult sensors (10/box) (P/N 16605) One box of single-patient-use neonatal sensors (10/box) (P/N 16606) Volumetric capnography software key (P/N 63733) Compatible with software 4.1 or above only.

References:

1 Kallet RH, Zhuo H, Liu KD, Calfee CS, Matthay MA. The Association Between Physiologic Dead-space Fraction and Mortality in Subjects with ARDS Enrolled in a Prospective Multi-center Clinical Trial. *Respir Care*. 2014;59(11):1611–1618. 2 Rodriguez PO, Bonelli I, Setten M, et al. Transpulmonary Pressure and Gas Exchange During Decremental PEEP Titration in Pulmonary ARDS Patients. *Respir Care*. 2013;58(5):754–763.

