

Option CapnoPlus/CO₂

The CapnoPlus/CO₂ option provides CO₂ mainstream measurement for ventilated patients and is designed for use with Evita® Infinity® V500, Savina® 300 Select and Savina® 300 Classic



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Your benefits with CO₂ mainstream measurement:

- quick and easy non-invasive CO₂ measurement¹
- display of CO₂ values as end tidal CO₂ concentration and continuous capnography
- values such as CO₂ production (VCO₂), dead space (V_{ds}) and the pulmonary dead space fraction (V_{ds}/V_{te}) are also available

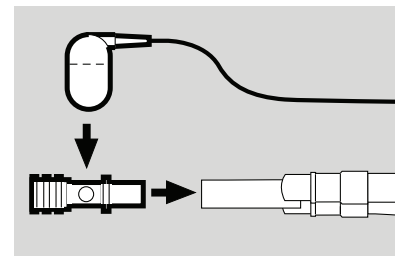
CO₂ MEASUREMENT

Within the exhalation phase, CO₂ is one of the most important parameters, providing valuable information on the efficacy of ventilation, gas exchange and metabolism.² Therefore, continuous monitoring of CO₂ concentrations can serve as an early warning system with regard to changes in the acuity level of critically ill patients.³ The mainstream infrared absorption measurement of CO₂ directly at the Y-piece provides reliable data which are displayed in real time on the ventilator screen.

WHY CAPNOPLUS/CO₂?

CapnoPlus/CO₂ offers more than just CO₂ measurement.

- display capnometry and capnography simultaneously, together with other patient parameters such as flow, volume/pressure curves and data^{4,5}
- enhance patient safety with individually adjustable CO₂ alarm settings and optimized ventilation management
- obtain accurate measurements via the CapnoSmart sensor even under challenging conditions, such as during active circuit humidification
- avoid gas leakage and resulting misrepresentation of ventilation settings
- rapidly verify patient CO₂ values with direct sensor control via the reference filter
- perform zero calibration at the parac holder without disconnecting the patient from the ventilator
- combine CapnoPlus/CO₂ with optional mask ventilation (NIV/NIVplus) for real time CO₂ monitoring even during NIV
- take full advantage of the automated weaning protocol SmartCare®/PS for Evita® Infinity® V500 when you choose the CapnoPlus option



D-11429-2016

CO₂ measurement directly at the Y-piece

- 1 Bongard F, Sue D.: Pulse oximetry and capnography in intensive and transitional care units. West J. Med. 1992 Jan; 156(1); 57-64
- 2 St. John RE.: Exhaled gas analysis: technical and clinical aspects of capnography and oxygen consumption. Crit Care Nurs Clin N Am. 1989; 20:363-374
- 3 St. John RE.: End-tidal carbon dioxide monitoring Crit Care Nurs Vol 23, No. 4, August 2003; 83-88
- 4 AARC Guideline: Capnography/Capnometry during Mechanical Ventilation-2003 revision and update: Respiratory Care, May 2003 Vol. 48 No. 5
- 5 Behende et al.: Validity of a disposable and end-tidal CO₂ detection in verifying endotracheal tube placement in infants and children. Ann Erg Med 1992 31:142-5
- 6 Depending on ambient and ventilation pressure, the actual upper value, when indicated in Vol.%, can be lower than the upper value displayed.
- 7 STPD: Standard Temperature, Pressure, Dry. Measured values based on standardized physical conditions: 0 °C (32 °F), 1013 hPa, dry gas

CO₂ ACCESSORIES

– For the CapnoPlus/CO₂ option, Dräger offers reusable as well as disposable CO₂ cuvettes for adult and pediatric patients

– The patented design of the disposable CO₂ cuvette delivers the same performance as the reusable type, but without the additional cost of time consuming sterilization protocols.

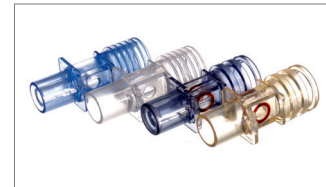


Mainstream CO₂ sensor for Evita® Infinity® V500, Savina® 300 Select and Savina® 300 Classic

TECHNICAL DATA

Option CapnoPlus/CO₂

| | |
|--|---|
| CO ₂ measurement in main flow | |
| End-expiratory CO ₂ concentration (etCO ₂) Vds*** | Range 0 to 100 mmHg, or 0 to 15 Vol.% ⁶ , or 0 to 13.3 kPa |
| CO ₂ production (VCO ₂)*** | Range 0 to 999 mL, BTPS |
| Monitoring | Range 0 to 999 mL/min, STPD ⁷ |
| | Capnometry and capnography |



From left to right:
 Disposable CO₂ cuvette, pediatric
 Disposable CO₂ cuvette, adults
 Reusable CO₂ cuvette, pediatric
 Reusable CO₂ cuvette, adults

ORDER INFORMATION

| | |
|---|---|
| CO ₂ monitoring – option | order via Evita® Infinity® V500 product configuration |
| CO ₂ monitoring – retrofit kit | order no. 84 16 200 |
| CO ₂ monitoring – option | order via Savina® 300 Select product configuration |
| CO ₂ monitoring – retrofit kit | order no. 84 14 150 |
| CO ₂ monitoring – option | order via Savina® 300 Classic product configuration |
| CO ₂ monitoring – retrofit kit | order no. 84 14 150 |

*** not available for Savina® 300 ventilators

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