



CO₂ cuvettes and mainstream sensors

Consumables and Accessories

Dräger offers a wide range of CO₂ monitoring accessories including dedicated reusable and disposable CO₂ cuvettes as well as mainstream CO₂ sensors to improve patient safety in a convenient way.

Benefits

Dräger CO₂ cuvettes and mainstream sensors

The Dräger mainstream CO₂ sensors offer non-invasive measurement of etCO₂ with a rapid response CO₂ sensor. It uses an infrared sensor to measure carbon dioxide directly at the end of the endotracheal tube. Hence the response is faster in comparison to the sidestream measurement and the measuring misreadings are reduced³⁾. Dräger offers a complete portfolio of CO₂ cuvettes for adults and pediatrics. The variety of CO₂ cuvettes available allows usage for different patient groups.

Clinical aspects – In intensive care, capnography is applied as a noninvasive way for evaluating a patient's ventilation status¹⁾. It can be used to assess changes in ventilation, pulmonary perfusion and metabolism to support optimization of ventilation settings²⁾. Observing the arterial or etCO₂ difference respective gradient over a period of time can provide important information, related to either improved or worsened patient status³⁾ and thus support to increase patient safety. Today, capnography monitoring is used in operating rooms, intensive care units and emergency departments to indicate incorrect intubation and to monitor cardiopulmonary resuscitation effectiveness⁴⁾⁵⁾.

- Rapid continuous measurement of the CO₂ partial pressure in the breathing gas
- Measurement of etCO₂
- Monitoring of etCO₂ with upper and lower alarm limits
- Determining the CO₂ production and serial dead space volume

Convenient – The disposable CO₂ cuvette completes the portfolio of disposable ventilation accessories for Dräger devices. The use of disposable accessories not only helps prevent costly cross-infections, but also helps optimise work processes. After use, the medical device can be disposed of according to the applicable hospital, hygiene and waste disposal regulations.

Economic – The Dräger disposable CO₂ cuvette does not require time and money consuming sterilization processes. In addition, the patented design of the disposable cuvette offers the same high quality and comparable performance as the reusable cuvettes.

Precise – The Dräger mainstream CO₂ sensors provide a clear, accurate capnogram. There is no delay in rise and fall times of gas composition changes.

Compatible – The sensors and cuvettes are compatible with the Dräger intensive care ventilators Evita 2 dura, Evita 4 edition, Evita XL (6871500) and Evita Infinity V500 (6871950) and Evita V800/V600*< footnote > *Not all products are available worldwide.< /footnote >.

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

Technical Data

Dräger CO₂-Mainstream Sensor

Resolution	1 mm Hg or 0.1 Vol.% or 0.1 kPa
Measuring range etCO ₂	0 to 100 mm Hg 0 to 13.3 Vol.% 0 to 13.3 kPa
Initialization time	max. 3 minutes
CO ₂ accuracy	at 0 to 40 mm Hg ± 2 mm Hg at 0 to 100 mm Hg ± 5 % of measured value
Sensor specifications	Sensor weight: 30 g Dimensions: 60 mm (H) x 30 mm (W) x 25 mm (D) Cable length: 2.25 m – 2.50 m
Ambient conditions during operation (6871500):	Temperature: 15 to 40 °C Air pressure: 670 to 1,200 hPa Humidity: 10 to 100 % (no condensation)
Ambient conditions during operation (6871950):	Temperature: 10 to 40 °C Air pressure: 570 to 1,100 hPa Humidity: 5 to 95 % (no condensation)
Material CO ₂ sensor / lead (6871500)	Polyurethane
Material CO ₂ sensor / lead (6871950)	Polysulphone / Polyurethane

Dräger CO₂-Cuvettes

	Type	Resistance	Deadspacevolume	Order number
CO₂ cuvette	reusable	0.4 mbar	< 7 ml	6870279 adults (1 piece)
		3.0 mbar	< 5 ml	6870280 pediatric (1 piece)
	disposable	0.32 mbar	< 7 ml	MP01062 adults (10 pcs.)
		2.4 mbar	< 4.5 ml	MP01063 pediatric (10 pcs.)
Sensor				
				68 71 950 (1 piece)*
				68 71 500 (1 piece)**

* Fits to Evita Infinity V500, Evita V800/V600

** Fits to Evita 2 dura, Evita 4 edition and Evita XL

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Corporate Headquarters

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
■ www.draeger.com

Manufacturer

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23542 Lübeck, Germany

Region Europe

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
☎ +49 451 882 0
☎ +49 451 882 2080
✉ info@draeger.com

Region Middle East, Africa

Drägerwerk AG & Co. KGaA
Branch Office
Dubai, United Arab Emirates
☎ +971 4 4294 600
☎ +971 4 4294 699
✉ contactuae@draeger.com

Region Asia Pacific

Draeger Singapore Pte. Ltd.
61 Science Park Road
The Galen #04-01
Singapore 117525
☎ +65 6872 9288
☎ +65 6259 0398

Region Central and South America

Dräger Indústria e Comércio Ltda.
Al. Pucuruí 51 - Tamboaré
06460-100 - Barueri - São Paulo
☎ +55 (11) 4689-4900
✉ relacionamento@draeger.com



Locate your Regional Sales Representative at:
www.draeger.com/contact