

Dräger CO₂ cuvettes and mainstream sensors

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.



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 infants. The variety of CO₂ cuvettes available allows usage for different patient profiles.

Clinical aspects – In intensive care, capnography is applied as a noninvasive way for evaluating a patient's ventilatory 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 worsening patient clinical status³⁾ and thus support increased patient safety. Today, capnography monitoring has been increasingly 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 intensive care ventilators. Simply dispose the used cuvette along with the entire disposable breathing circuit to reduce dismantling time.

Economic – The Dräger disposable CO₂ cuvette does not require time and money consuming sterilization protocols. In addition, the patented design of the disposable cuvette delivers the same high quality in performance as the reusables.

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

Compatible – Sensor and cuvettes fit the Dräger intensive care ventilators Evita 2 dura, Evita 4 edition, Evita XL (6871500) and Evita Infinity® V500 (6871950)*.



D-5855-2009

The CO₂ cuvettes are lightweight and color coded for easy identification



MT-0986-2007

Dräger mainstream CO₂ sensor continuously measures etCO₂

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

*Not all products are available worldwide.

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 1200 hPa Humidity: 10 to 100 % (no condensation)
Ambient conditions during operation (6871950):	Temperature: 10 to 40° C Air pressure: 570 to 1100 hPa Humidity: 5 to 95% (no condensation)
Material CO ₂ sensor / lead (6871500)	Polyurethane
Material CO ₂ sensor / lead (6871950)	Polysulphone / Polyurethane

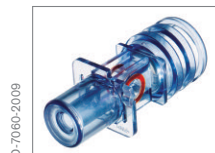
DRÄGER CO₂-CUVETTES

	Type	Resistance	Deadspacevolume	Order number
CO ₂ 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			6871500 (1 piece)* 6871950 (1 piece)**	

* Fits to Evita 2 dura, Evita 4 edition and Evita XL
** Fits to Evita Infinity V500



CO₂ cuvette,
reusable, adults



CO₂ cuvette,
reusable, pediatric



CO₂ cuvette,
disposable, adults



CO₂ cuvette,
disposable, pediatric

HEADQUARTERS

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Dräger Medical GmbH is certified
according to ISO 13485, ISO 9001
and Annex II.3 of Directive 93/42/EEC
(Medical devices).