



# For accurate CO<sub>2</sub> readings use Philips sensor and adapters.

## Philips Medical Supplies

Philips offers a family of high-quality CO<sub>2</sub> monitoring supplies that includes both reusable and single-patient-use airway adapters as well as a Mainstream CO<sub>2</sub> sensor.

The Philips M2501A Mainstream CO<sub>2</sub> Sensor uses sophisticated infrared absorption spectroscopy to measure EtCO<sub>2</sub>. Measurements are taken at the patient's airway, so response is faster and there is less chance of erroneous, artifact data. And since there are no moving parts, the sensor is durable and provides reliable readings you can count on.

Philips also offers a family of versatile, high-quality reusable and single-patient-use airway adapters for adult, pediatric, infant, and neonatal patients. These airway adapters are lightweight, cost effective, and color-coded for easy identification.

### Mainstream Capnography takes a stepforward.

- **Fast.** Measurements are taken at the patient's airway, so response time is fast—less than 60 ms.
- **Easy.** Simply snap the sensor onto the airway adapter. There are no clips or latches to break.
- **Accurate.** Philips sensor delivers clear, precise CO<sub>2</sub> measurements. And no regular calibration is required.
- **Reliable.** Rugged design and construction minimizes downtime. There are no moving parts to replace.
- **Lightweight.** At just 25 grams, our sensors are ideal for neonates.
- **Compatible.** Functions with M3014A capnography extension, MP5 (M8105A), MP2 (M8102A) and X2 (M3002A).
- **Optional.** A regulator (M2505A) and a verification gas cylinder (M2506A) are also available for periodic testing of the sensor.

# PHILIPS

## M2501A Mainstream CO<sub>2</sub> Sensor Specifications

Initialization Time:	Full specifications within 2 minutes, waveform data in less than 15 seconds at an ambient temperature of 25° C.	
CO <sub>2</sub> Measurement Range:	0 to 150mm Hg, 0 to 20 kPa (at 760mm Hg)	
CO <sub>2</sub> Accuracy:	0-40mm Hg	+/- 2mm Hg
	41-70mm Hg	+/- 5% of reading
	71-100mm Hg	+/- 8% of reading
	101-150mm Hg	+/- 10% of reading
CO <sub>2</sub> Stability:	Short Term Drift: Drift over 4 hours shall not exceed 0.8mm Hg max. Long Term Drift: Accuracy specification will be maintained over a 120-hour period.	
Calibration:	No routine user calibration required. 15-second airway adapter zero performed when changing to a different style of airway adapter.	
Physical Characteristics:	Sensor weight less than 25gm (not including cable) Size: 33mm (H) x 48mm (W) x 23mm (D) 3 meter (9.8 ft) cable standard	
Temperature and Humidity:	Operating: 0 to 45° C, 10 to 90% RH, non-condensing Storage: -40 to 70° C, <90% RH, non-condensing	
Water Resistant (Sensor):	IPX4 - Splash-proof	
Shock Impact:	Able to withstand repeated 6-foot (1.8m) drops onto tiled floor while operating.	
Data Output:	Real time, linearized, calibrated CO <sub>2</sub> gas concentration (mm Hg), End-tidal CO <sub>2</sub> , Inspired CO <sub>2</sub> , Respiratory Rate. Gas and barometric pressure compensated. Selectable compensations for O <sub>2</sub> (0-100%) and N <sub>2</sub> O (On/Off) and He (On/Off)	



CO <sub>2</sub> Airway Adapters	Model	ET Tube Size	Deadspace
Reusable	M2513A (Adult/Pediatric) - black	> 4.0mm	< 5cc
	M2516A (Infant/Neonatal) - red	≤ 4.0mm	<1 cc
Single-Patient Disposable	M2533A (Adult/Pediatric) - clear	> 4.0mm	< 5cc
	M2536A (Infant/Neonatal) - violet	≤ 4.0mm	<1 cc



© 2008 Koninklijke Philips Electronics N.V.  
All rights are reserved.

Philips Medical Systems Nederland B.V. reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

Philips Healthcare is part of Royal Philips Electronics

[www.philips.com/healthcare](http://www.philips.com/healthcare)  
[healthcare@philips.com](mailto:healthcare@philips.com)  
fax: +31 40 27 64 887

Printed in The Netherlands  
4522 962 29811/800 \* FEB 2008

Philips Healthcare  
Global Information Center  
P.O. Box 1286  
5602 BG Eindhoven  
The Netherlands