



Next generation sensor for Sidestream CO₂ monitoring

Philips offers a high-quality Sidestream CO₂ sensor and a family of disposable cannulas and airway adapter sets for use on intubated and non-intubated patients.

The Philips M2741A Sidestream CO₂ Sensor uses sophisticated infrared absorption spectroscopy to measure EtCO₂ and respiration rate. The sensor delivers a clear, precise capnogram for respiratory rates up to 150 breaths per minute. And with a sampling rate of 50 ml/min, it is ideal for use with infants and smaller patients.

The M2741A Sidestream CO₂ Sensor is used with Philips Capnography Measurement Server Extension (M3014A) in combination with the IntelliVue Multi Measurement Server:

Philips offers airway adapter sets for intubated patients that require close monitoring of their EtCO₂ levels. Nasal and oral-nasal cannulas

are available for non-intubated patients who undergo procedural sedation.

M2741A Sidestream CO₂ Sensor Features/ Benefits:

- **Application Environment.** Ideal for the General Ward, ICU, CCU, ER, OR and EMS.
- **Compatible.** M2741A Sensor is compatible with the entire family of IntelliVue patient monitors (Release D.0 or later).
- **Dependable.** Delivers a clear, precise measurement of EtCO₂.
- **Reliable.** Rugged solid-state design.
- **Innovative.** Sampling cell and filter are attached to the disposable sampling kits, preventing fluids from contaminating the sensor.
- **Easy.** Plug and play functionality. Intuitive and easy to use. No regular calibration required.

PHILIPS

Specifications

M2741A Sidestream CO₂ Sensor	
Initialization Time	Full specifications within 2 minutes, waveform data in less than 20 seconds at an ambient temperature of 25°C.
CO ₂ Measurement Range	0 to 150 mm Hg, 0 to 19.7%, 0 to 20kPa (at 760 mm Hg)
CO ₂ Accuracy	0-40 mm Hg ± 2 mm Hg 41-70 mm Hg ± 5% of reading 71-100 mm Hg ± 8% of reading 101-150 mm Hg ± 10% of reading Note: All specifications are ± 12% for respiration rates above 80 BPM
Sample Flow Rate	50 ml/min ± 10 ml/min
CO ₂ Stability	Short Term Drift: Drift over four hours shall not exceed 0.8 mm Hg max. Long Term Drift: Accuracy specification will be maintained over a 120-hour period.
Calibration	No routine user calibration required.
Physical Characteristics	Height: <38.1 mm Width: <66.1 mm Depth: <88.9 mm
Temperature and Humidity	Operating: 0 to 40°C, 10 to 90% RH, non-condensing Storage: 40 to 70°C, <90% RH, non-condensing
Water Resistant (Sensor)	IPX4-Splash-proof
Shock Resistance	IEC TR 60721-4-7 Class 7M3 IEC 60068-2-27 Shock
Data Output	CO ₂ gas concentration (mm Hg), End-tidal CO ₂ , Inspired minimum CO ₂ , Airway Respiratory Rate

Single-Patient Disposable Cannulas — Non-Intubated

Product Number	
M2744A	CO ₂ Nasal Cannula, Adult
M2745A	CO ₂ Nasal Cannula, Pediatric
M2746A	CO ₂ Nasal Cannula, Infant
M2750A	CO ₂ /O ₂ Nasal Cannula, Adult
M2751A	CO ₂ /O ₂ Nasal Cannula, Pediatric
989803144471	CO ₂ /O ₂ Nasal Cannula, Infant
M2756A	CO ₂ Oral-Nasal Cannula, Adult
M2757A	CO ₂ Oral-Nasal Cannula, Pediatric
M2760A	CO ₂ /O ₂ Oral-Nasal Cannula, Adult
M2761A	CO ₂ /O ₂ Oral-Nasal Cannula Pediatric

All-in-one single-patient-use sample cell, filter and full line of adult, pediatric and infant nasal cannula sampling kits for non-intubated patients.

Airway Adapter Sets — Intubated

Model	Endotracheal Tube Size	
M2768A	Airway Adapter Set	greater than 4.0 mm
989803144531	Airway Adapter Set	equal to or less than 4.0 mm
M2772A	Airway Adapter Set H	greater than 4.0 mm
M2773A	Airway Adapter Set H	equal to or less than 4.0 mm
M2776A	Straight Sample Line (non-humidified) recommended for HME filter	
M2777A	Straight Sample Line H (humidified) recommended for HME filter	

All-in-one single-patient-use airway adapter kits for long- and short-term EtCO₂ monitoring of intubated adult, pediatric and infant patients.

Sidestream Sample Kit Selection Guide

Is the patient intubated?

Yes

No

Short Term

Up to 12 hours
(patient non-humidified)

Key applications:

(Operating Room, Recovery Room)



M2768A Airway Adapter Set
(ET Tube >4.0mm)



M2776A Straight Sample Line
(recommended for Heat Moisture
Exchanger filter)

989803144531 Airway Adapter Set
(ET Tube ≤4.0mm)

Long Term

Up to 120 hours
(patient humidified)

Key applications:

(Critical Care Areas, Operating Room)



M2772A Airway Adapter Set H
(ET Tube >4.0mm)



M2773A Airway Adapter Set H
(ET Tube =/<4.0mm)



M2777A Straight Sample Line H
(recommended for Heat Moisture
Exchanger filter)

Does the patient need oxygen?

Yes

No

**Monitoring O₂ / CO₂
Nasal**

Up to 12 hours



Key applications:
(ED, EMS, Transport,
Conscious Sedation)

M2750A
Adult CO₂ / O₂
Nasal Cannula

M2751A
Pediatric CO₂ / O₂
Nasal Cannula

989803144471
Infant CO₂ / O₂
Nasal Cannula

**Monitoring O₂ / CO₂
Oral/Nasal**

Up to 12 hours



Key applications:
(ED, EMS, Transport,
Conscious Sedation)

M2760A
Adult CO₂ / O₂
Oral/Nasal Cannula

M2761A
Pediatric CO₂ / O₂
Oral/Nasal Cannula

Nasal

Up to 12 hours



Key applications:
(Sleep Lab, ED, EMS, Transport,
Conscious Sedation, Critical Care Areas)

M2744A
Adult CO₂ Nasal Cannula

M2745A
Pediatric CO₂ Nasal Cannula

M2746A
Infant CO₂ Nasal Cannula

Oral/Nasal

Up to 12 hours



Key applications:
(Sleep Lab, ED, EMS, Transport,
Conscious Sedation, Critical Care Areas)

M2756A
Adult CO₂ Oral/Nasal
Cannula

M2757A
Pediatric CO₂ Oral/Nasal
Cannula

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Printed in The Netherlands.
4522 962 38701/864 * DEC 2008