Next generation sensor for Sidestream CO$_2$ monitoring

Philips offers a high-quality Sidestream CO$_2$ sensor and a family of disposable cannulas and airway adapter sets for use on intubated and non-intubated patients.

The Philips M2741A Sidestream CO$_2$ Sensor uses sophisticated infrared absorption spectroscopy to measure EtCO$_2$ 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 CO$_2$ 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 EtCO$_2$ levels. Nasal and oral-nasal cannulas are available for non-intubated patients who undergo procedural sedation.

M2741A Sidestream CO$_2$ 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 EtCO$_2$.
- **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.
### M2741A Sidestream CO₂ Sensor

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initialization Time</td>
<td>Full specifications within 2 minutes, waveform data in less than 20 seconds at an ambient temperature of 25°C.</td>
</tr>
<tr>
<td>CO₂ Measurement Range</td>
<td>0 to 150 mm Hg, 0 to 19.7%, 0 to 20kPa (at 760 mm Hg)</td>
</tr>
</tbody>
</table>
| CO₂ 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 |
| CO₂ 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                   | CO₂ gas concentration (mm Hg), End-tidal CO₂, Inspired minimum CO₂, Airway Respiratory Rate |

### Single-Patient Disposable Cannulas — Non-Intubated

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2744A</td>
<td>CO₂ Nasal Cannula, Adult</td>
</tr>
<tr>
<td>M2745A</td>
<td>CO₂ Nasal Cannula, Pediatric</td>
</tr>
<tr>
<td>M2746A</td>
<td>CO₂ Nasal Cannula, Infant</td>
</tr>
<tr>
<td>M2750A</td>
<td>CO₂/O₂ Nasal Cannula, Adult</td>
</tr>
<tr>
<td>M2751A</td>
<td>CO₂/O₂ Nasal Cannula, Pediatric</td>
</tr>
<tr>
<td>989803144471</td>
<td>CO₂/O₂ Nasal Cannula, Infant</td>
</tr>
<tr>
<td>M2756A</td>
<td>CO₂ Oral-Nasal Cannula, Adult</td>
</tr>
<tr>
<td>M2757A</td>
<td>CO₂ Oral-Nasal Cannula, Pediatric</td>
</tr>
<tr>
<td>M2760A</td>
<td>CO₂/O₂ Oral-Nasal Cannula, Adult</td>
</tr>
<tr>
<td>M2761A</td>
<td>CO₂/O₂ Oral-Nasal Cannula Pediatric</td>
</tr>
</tbody>
</table>

### Airway Adapter Sets — Intubated

<table>
<thead>
<tr>
<th>Model</th>
<th>Endotracheal Tube Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2768A</td>
<td>Airway Adapter Set greater than 4.0 mm</td>
</tr>
<tr>
<td>989803144531</td>
<td>Airway Adapter Set equal to or less than 4.0 mm</td>
</tr>
<tr>
<td>M2772A</td>
<td>Airway Adapter Set H greater than 4.0 mm</td>
</tr>
<tr>
<td>M2773A</td>
<td>Airway Adapter Set H equal to or less than 4.0 mm</td>
</tr>
<tr>
<td>M2776A</td>
<td>Straight Sample Line (non-humidified) recommended for HME filter</td>
</tr>
<tr>
<td>M2777A</td>
<td>Straight Sample Line H (humidified) recommended for HME filter</td>
</tr>
</tbody>
</table>

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

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)

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)

No

Does the patient need oxygen?

Yes

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

No

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

989803144531 Airway Adapter Set
(ET Tube ≤4.0mm)