For accurate CO₂ readings use Philips sensor and adapters.

Philips Medical Supplies

Philips offers a family of high-quality CO₂ monitoring supplies that includes both reusable and single-patient-use airway adapters as well as a Mainstream CO₂ sensor.

The Philips M2501A Mainstream CO₂ Sensor uses sophisticated infrared absorption spectroscopy to measure EtCO₂. 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 step forward.

• 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 CO₂ 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.
### M2501A Mainstream CO₂ Sensor Specifications

<table>
<thead>
<tr>
<th>Initialization Time:</th>
<th>Full specifications within 2 minutes, waveform data in less than 15 seconds at an ambient temperature of 25°C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO₂ Measurement Range:</td>
<td>0 to 150 mm Hg, 0 to 20 kPa (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 |
| CO₂ Stability: | Short Term Drift: Drift over 4 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. 15-second airway adapter zero performed when changing to a different style of airway adapter. |
| Physical Characteristics: | Sensor weight less than 25 gm (not including cable)  
Size: 33 mm (H) x 48 mm (W) x 23 mm (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 (1.8 m) drops onto tiled floor while operating. |
| Data Output: | Real time, linearized, calibrated CO₂ gas concentration (mm Hg), End-tidal CO₂, Inspired CO₂, Respiratory Rate.  
Gas and barometric pressure compensated.  
Selectable compensations for O₂ (0-100%) and N₂O (On/Off) and He (On/Off) |

#### CO₂ Airway Adapters

<table>
<thead>
<tr>
<th>Model</th>
<th>ET Tube Size</th>
<th>Deadspace</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2513A (Adult/Pediatric) - black</td>
<td>&gt; 4.0 mm</td>
<td>&lt; 5 cc</td>
</tr>
<tr>
<td>M2516A (Infant/Neonatal) - red</td>
<td>≤ 4.0 mm</td>
<td>&lt; 1 cc</td>
</tr>
<tr>
<td>M2533A (Adult/Pediatric) - clear</td>
<td>&gt; 4.0 mm</td>
<td>&lt; 5 cc</td>
</tr>
<tr>
<td>M2536A (Infant/Neonatal) - violet</td>
<td>≤ 4.0 mm</td>
<td>&lt; 1 cc</td>
</tr>
</tbody>
</table>