Infinity® MCable™-Mainstream CO₂

Fast and easy to apply, the Infinity® MCable™-Mainstream CO₂ uses infrared absorption technology to make mainstream CO₂ measurements. It measures both end-tidal and inspired CO₂ and calculates the respiratory rate from the CO₂ waveform – at the bedside and on transport. Measured values are displayed on the Infinity M540 or the Evita® Infinity V500.

**FEATURES**

- View CO₂ parameters and waveform together with hemodynamic data on the same display (when used with Infinity M540)
- View CO₂ parameters and waveform together with ventilator data on the same display (when used with Evita Infinity V500)
- View data both on bedside monitors and at remote locations across the Infinity Network
- Measures end-tidal CO₂, inspired CO₂ and respiratory rate
- Part of the accessory portfolio of Infinity Acute Care System™

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Measuring Capabilities</th>
<th>end-tidal CO₂ (etCO₂), inspired CO₂ (inCO₂), respiratory rate (RRc)</th>
</tr>
</thead>
</table>

**Technology**

Dual wavelength non-dispersive infrared*

*Light filtered at two specific infrared wavelengths is converted into electrical signals that change with the CO₂ concentration. These signals are then evaluated and displayed. The CO₂ sensor is also heated to reduce condensation.

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>0 to 100 mmHg partial pressure (0 to 13.3 kPa partial pressure or 0 to 13.2 vol%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiration</td>
<td>0 to 150 bpm</td>
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</tbody>
</table>

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<thead>
<tr>
<th>Measurement Accuracy</th>
<th>0 to 40 mmHg (0 to 5.3 kPa) @ 40.4 mmHg (0 to 5.3 kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRc (Respiration)</td>
<td>± 1 bpm</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 mmHg (0.1 kPa or 0.1%)</td>
</tr>
</tbody>
</table>
CONTINUING TECHNICAL DATA

RRc  1 bpm
Rise time (t(0→100%))  26 to 39 msec
Delay time  144 to 170 msec for t (trigger→50%)
Dead space volume  4 cm³ (Adult airway adapter)
  1.5 cm³ (Pediatric airway adapter)
Resistance  0.5 mbar @ 60 L/min (Adult airway adapter)
  0.7 mbar @ 10 L/min (Pediatric airway adapter)
Warm-up time  2 min typical; capnography waveform available as soon as patient is connected and breaths are detected

Compensation (user-selectable)
Gas compensation  Air, N₂O/O₂, >50% O₂, Heliox balance
Atmospheric pressure  570 to 800 mmHg (76 to 107 kPa)
Alarm limits (user-selectable)  end-tidal CO₂, inspired CO₂, (upper alarm only), respiration rate (RRc)
Apnea Settings  Off, 10, 15, 20, 25, 30 sec

PRODUCT SPECIFICATIONS

Physical Specifications
Power source  Powered directly from the M540
Size (H x W x D)  30 x 50 x 20 mm (1.18 x 1.96 x 0.78 in)
Weight  30 g (0.66lb) (MCable-Mainstream CO₂)
  8 g (0.02 lb) (Airway adapter)
Connectors  Cable connecting to the M540 CO₂ port

Environmental Requirements
Temperature Range
Operating  10 °C to 40 °C (50 °F to 104 °F)
Storage  -40 °C to 75 °C (-40 °F to 167 °F)

Relative Humidity
Operating  5% to 95%, non-condensing
Storage  5% to 95%, non-condensing

Atmospheric Pressure
Operating  428 to 825 mmHg (57 to 110 kPa)
Storage  87 to 825 mmHg (11.5 to 110 kPa)

Moisture resistance
MCable-Mainstream CO₂  IP64 (dust protected, splash-proof)
Reusable airway adapter  Can be immersed in water

Standards
IEC 60601-1 and applicable particular and collateral standards, IEC 60601-1-2,ISO 21647.
The MCable Mainstream CO₂ sensor complies with Medical Device Directive (MDD) 93/42 EEC and bears the CE mark.

ORDERING INFORMATION

MCable-Mainstream CO₂...
CO₂ airway adapter, adult, reusable
CO₂ airway adapter, pediatric, reusable
CO₂ airway adapter, adult, disposable, 10 pcs.
CO₂ airway adapter, pediatric, disposable, 10 pcs.
Calibration set
CO₂ test gas cylinder

Order via MS22113 or 8416300

*The Infinity MCable-Mainstream CO₂ and M540 monitor require 510(k) review and are not commercially available in the U.S.

*The Infinity MCable-Mainstream CO₂ and M540 monitor are not licensed in accordance with Canadian Medical Device Regulations.

Infinity is a registered trademark and Acute Care System and MCable are trademarks of Dräger Medical.