

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

Measuring Capabilities

Displayed parameters end-tidal CO₂ (etCO₂), inspired CO₂ (inCO₂), respiratory rate (RRc)

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.

Measuring range

CO ₂	0 to 100 mmHg partial pressure (0 to 13.3 kPa partial pressure or 0 to 13.2 vol%)
Respiration	0 to 150 bpm

Measurement Accuracy

CO ₂	± 2 mmHg (± 0.27 kPa) @ 0 to 40 mmHg (0 to 5.3 kPa) ± 5% relative @ 40.1 to 100 mmHg (5.4 to 13.3 kPa)
RRc (Respiration)	± 1 bpm

Resolution

CO ₂	1 mmHg (0.1 kPa or 0.1%)
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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 cm ³ (Adult airway adapter) 1.5 cm ³ (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, N ₂ O/O ₂ , >50% O ₂ , Heliox balance
Atmospheric pressure	570 to 800 mmHg (76 to 107 KPa)
Alarm limits (user-selectable)	end-tidal CO ₂ , inspired CO ₂ (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 CO ₂) 8 g (0.02 lb) (Airway adapter)
Connectors	Cable connecting to the M540 CO ₂ 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 CO ₂	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 CO ₂	6871950
CO ₂ airway adapter, adult, reusable	6870279
CO ₂ airway adapter, pediatric, reusable	6870280
CO ₂ airway adapter, adult, disposable, 10 pcs.	MP01062
CO ₂ airway adapter, pediatric, disposable, 10 pcs.	MP01063
Calibration set	8412710
CO ₂ test gas cylinder	6850435

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.

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