Oridion Microcap Capnography Monitor

The **Oridion Microcap** is a portable capnograph that's used for the continuous monitoring of EtCO2 (End-tidal carbon dioxide), FiCO2 (Fractional inspired carbon dioxide), and RR (Respiratory rate). It can display EtCO2 and FiCO2 in either mmHg, kPa, or Vol% and can provide output for a printer, PC, or digital to analog converter. This Oridion capnography monitor uses microstream non-dispersive infrared (NDIR) spectroscopy to monitor CO2 while breathing.

Features

- Displays CO2 waveform, EtCO2 numerical value, and Respiratory rate or FiCO2.
- Can connect to communication adapter, printer, PC, digital to analog converter, nurse call system, and patient monitoring systems.
- Operating time is between 4 and 7 hours depending on device usage.
- Weighs 1.66 lbs with battery.

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Specifications

Dimensions

Height: 8.11 in (20.6 cm)

Width: 3.46 in (8.8 cm)

Depth: 2.06 in (5.25 cm)

Weight: 1.66 lbs. (0.75 kg)

Performance

Sampling Rate: 50 ml/min.

CO2 Range: 0-99 mmHg (0-13.2 kPa and 0-13.0 Vol%) at sea level

EtCO2 Accuracy

From power-up until steady state, the CO2 reading accuracy is:
0 - 38 mmHg: (±4 mmHg)
39 - 99 mmHg: (±12% of reading)
CO2 reading reaches steady state accuracy 20 minutes after power up.
0 - 38 mmHg: (±2 mmHg)
39- 99 mmHg: (±5% of reading + 0.08% for every 1 mmHg above 40 mmHg)
Equivalent values for kPa and Vol%

Respiration Rate: 0-150 breaths/min.

Warm-up Time: 30 seconds (typical)

Frequency Response

EtCO2 accuracy is maintained up to 80 breaths/min. (For maintaining accuracy for respiration rate over 60 bpm, use the neonatal mode.) From 81 to 150 bpm accuracy is ±12%, if the EtCO2 is higher than 18.8 mmHg in neonatal mode.

System Response Time

2.45 seconds (typical), 2.9 seconds maximum (includes delay and rise time)

Rise Time

Neonate: 190 msec with low dead space endotracheal tube adapter

Adult: 240 msec with FilterLine airway adapter

Battery / Power

External Power Source: 12V DC Medical Grade Adapter

Internal Power Source: Ni-MH Rechargeable Battery Pack 7.2V 2.1 A/h
Operating Time (fully charged): Between 4 and 7 hours, depending on power management. These values reflect the performance of a new battery; age and usage will decrease capacity.
Recharging Period: Approximately 4.5 hours internal recharging
Charger Type: Internal

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