

# ORIDION MICROCAP

## ABOUT

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The Oridion Microcap is a portable capnograph that's used for the continuous monitoring of EtCO<sub>2</sub> (End-tidal carbon dioxide), FiCO<sub>2</sub> (Fractional inspired carbon dioxide), and RR (Respiratory rate). It can display EtCO<sub>2</sub> and FiCO<sub>2</sub> 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 CO<sub>2</sub> while breathing.

## FEATURES

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Displays CO<sub>2</sub> waveform, EtCO<sub>2</sub> numerical value, and Respiratory rate or FiCO<sub>2</sub>.

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 lb with a battery.



# 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.  
CO<sub>2</sub> Range: 0-99 mmHg (0-13.2 kPa and 0-13.0 Vol%) at sea level

### EtCO<sub>2</sub> Accuracy

From power-up until steady state, the CO<sub>2</sub> reading accuracy is:

- 0 – 38 mmHg: ( $\pm 4$  mmHg)
- 39 – 99 mmHg: ( $\pm 12\%$  of reading)

CO<sub>2</sub> reading reaches steady state accuracy 20 minutes after power up.

- 0 – 38 mmHg: ( $\pm 2$  mmHg)
- 39- 99 mmHg: ( $\pm 5\%$  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

EtCO<sub>2</sub> 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  $\pm 12\%$ , if the EtCO<sub>2</sub> 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 of internal recharging

Charger Type: Internal