

RICAP: RAPID INTERVENTION CAPNOGRAPH

Prime
Innovation
for Medical
Application

*Capnogram,
EtCO₂,
Respiration Rate,
Splashproof
and Rugged*

ZUG
MEDICAL SYSTEMS



OVERVIEW

RICap CO2 Monitor is intended to provide continuous monitoring of end tidal CO2 concentration (EtCO2), Capnogram, Respiration Rate (RR) of adult, paediatric and infant patients.

As a life saving device during Rapid Intervention, RICAcap finds its place in emergency departments just as much as in perioperative departments, spot check for both intubated and non-intubated patients, and during transport not only in ambulances but even within the hospital. Splashproof, lightweight and fitting in the palm of a hand, starting up within seconds, he is an excellent device that can be used directly by both ALS and BLS providers.

RICap waveform allows a quick evaluation of the patient respiratory distress help healthcare personnel for a rapide intervention.



FEATURES

- High standard Accuracy CO2 measurement by dual wave length
- Splash proof and rugged design for use in harsh conditions
- 4 buttons for convenient settings adjustments, alarm pause and power on/off
- Adjustable Sweep speed
- Selectable units mmHg, kPa, %
- Apnea detection and adjustable
- Configurable alarms for Respiration rate alarm, EtCO2 high and low, clogged or missing adapter
- Low battery indicator
- Visual and audible (buzzer) alarm
- Real-time Capnogram display
- Up to 7 hours continuous use
- Adult and neonatal airway adapters
- Ultra lightweight
- No annual routine calibration required
- Support english, italian, french, hungarian (other language upon request)
- Bluetooth connectivity to export real time data



TECHNICAL CHARACTERISTICS

Mechanical and Environment

Dimensions	60 x 47 x 43 mm (2.36 x 1.85 x 1.69 inches)
Weight	~80 g (complete device with batteries)
Mechanical robustness	Meets the shock and vibration requirements for transport of SS-EN ISO 21647:2004 clause 21.102
Temperature and Humidity	Operating: 0 to 50°C, 10 to 90% RH, non-condensing Storage: -30 to 70°C, <90% RH, non-condensing
Atmospheric pressure	70 - 120 kPa

EtCO₂ Measurement

Transducer Type	Mainstream CO ₂ Monitor
Measuring method	Dual-wavelength, non-dispersive infrared spectroscopy
Initialization Time	Capnogram, displayed in less than 30 seconds at an ambient temperature of 25°C, full specifications within 2 minutes
CO ₂ Measurement Range	0 to 99 mmHg, 0 to 9.9%, 0 to 9.9 kPa
CO ₂ Accuracy	±(0.2% + 2% of reading)
Total system response time	< 1s
Calibration	No routine user calibration required. An airway adapter zero is required when changing to a new airway adapter
Recovery time after defibrillator test	Unaffected

Respiration Rate Measurement

Respiratory rate Range	0~150 Breaths Per Minute (BPM)
Respiration Rate Accuracy	±1BPM
Breath detect	Adaptive threshold, minimum 1 % CO ₂ change
Airway Adapters	< 5 cc dead space (adult/Pediatric), < 1 cc dead space(infant)

Human Machine Interface

Display	Active OLED color graphic display, 65 000 colors, 128 x 128 pixels
Front Panel Buttons	4 buttons: power on/off, alarm pause, up/down selection
Alarms	No Adapter, Clogged Adapter, No Breath Detected, High AwRR, Low ETCO ₂ , High ETCO ₂ , Temperature out of range, Atmospheric pressure is over operating range, Low Battery
Sound Intensity Level	≥ 55 dB(A)

Power Specifications

External Supply	None
Power Consumption	TBD
Batteries	Two AAA Cell batteries (2x1.5VDC): Alkaline IEC:LR03 or Energizer Ultimate Lithium L92 batteries. Use of other Lithium batteries may present a risk of fire or explosion
Battery life time	Duracell Plus Alkaline: ~4 hours Energizer Ultimate Lithium L92: ~7 hours

Regulatory Compliance

Certificate	CE
Standards compliance	MDD 93/42/EEC EN 60601:1990, Amendment 1 (1991), Amendment 2 (1995) EN 60601-1-2:2001 EN 60601-1-8:2004 EN ISO 21647:2004 EN ISO 5356-1:2004 EN 1789:2007
Box content	RICap capnograph, adult and neonate airway adapters, lanyard and pouch

ACCESSORIES

Part Number	Designation	Included with device
RICAP	RICap module	1
RIC-A	Adult airway adapter	1x
RIC-N	Neonate airway adapter	1x
RIC-P	Pouch	1x
RIC-L	Lanyard	1x
RIC-B	AAA battery	2x

Headquarter
Zug Medical Systems SAS
 2000 Route Des Lucioles, CS 90029
 06901 Sophia Antipolis
 France

W www.zugmed.com
 E sales@zugmed.com
 T +33 (0)9 78 234 726
 F +33 (0)9 57 135 843

ZUG
 MEDICAL SYSTEMS