



# REBEL

Healthcare Online

Rebel snc  
Via Koch, 31/A – 43123 Pilastrello – Parma (PR)  
Tel. 0521 346603 - Fax +39 0521 641804  
info@rebelmed.com – www.rebelmed.com

bluepoint MEDICAL

## CapnoTrue® MG – Multigas/SpO<sub>2</sub> Monitor

High-performance and versatile anaesthetic agent monitoring



» PRODUCTS that care for you «



EU Made in Europe

DE SE German and Swedish Technology

Per ulteriori informazioni contattate i nostri uffici e/o visitate il sito

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## Technical data

Display		
Parameters displayed	Numerical	End-tidal (et) CO <sub>2</sub> , N <sub>2</sub> O- and agent concentrations, inspired (Fi) CO <sub>2</sub> , N <sub>2</sub> O- and agent concentrations, oxygen saturation (SpO <sub>2</sub> ), Respiration Rate (RR), Pulse Rate (PR)
	Graphical	Capnogram and trends of numerical data (15 min/1 h/6 h)
	Indicators	Signal strength and signal quality, pulse amplitude, battery status, alarm mute, pulse tone mute, storage status, real-time mode, neonatal mode, time
Characteristics	Active OLED colour graphic display, 262 000 colours, 240 x 320 pixel (42 mm x 56 mm)	
Capnography and anesthetic agent measurement specifications		
Measurement Range	etCO <sub>2</sub> und FiCO <sub>2</sub>	0 - 15 %
	FiN <sub>2</sub> O	0 - 100 %
	Hal, Iso, Enf	0 - 8 %
	Sev	0 - 10 %
	Des	0 - 22 %
	Respiration Rate	0 - 150 1/min
Accuracy	etCO <sub>2</sub> und FiCO <sub>2</sub>	+/- (0.2 Vol % + 2 % of reading)
		+/- (0.3 Vol % + 4 % of reading) incl. interfering gases
	N <sub>2</sub> O	+/- (2 Vol % + 2 % of reading)
		+/- (2 Vol % + 5 % of reading) incl. interfering gases
	Hal/Iso/Enf/Sev/Des	+/- (0.15 Vol % + 5 % of reading)
Respiration Rate	+/- 1 digit	
Warm-up time	< 20 seconds full specification	
Pulse Oximetry specifications		
Measurement Range	SpO <sub>2</sub>	0 - 100 %
	Pulse Rate	20 - 300 1/min
Accuracy	SpO <sub>2</sub>	+/- 2 % (70 bis 100 %)
	Pulse Rate	+/- 1 digit (up to 100 1/min) or +/- 1 % (> 100 1/min)
Trend information		
Long term trend	up to 150 hours	
Short term trend	15 min/1h/6h	
Alarms		
Limits	Adjustable limits for all numerical parameters except for MAC	
Alerts	Audible and visual alarms (complies with EN 60601-1-8)	
Storing Data		
Communication interface	USB 2.0	
Data memory capacity	up to 150 hours	
Real-time mode	Visualisation and storage of numerical parameters on a computer every 4 seconds	
Computer software	CapnoTrue® MG PC Software for data download and real-time mode	
Language versions		
Please indicate language when ordering	Europe: EN, DE, ES, FR, IT, NL, SE, RU (additional language versions on request)	
	Asia: EN, CN, JP (additional language versions on request)	

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Power supply	
Battery	Working time with full functionality approx. 4.5 hours, 4 alkaline batteries (AA / LR6 / AM3 / MN1500 / Mignon), 1.5 V
Li-Poly battery	Working time with full functionality approx. 7 hours, Li-Poly battery, Model No. CT-2500, 3.7 V, 2500 mAh, charging time approx. 5 hours
AC power supply	Model No. FW 7660M/06, medical power supply with option for country-specific input plug, input: 100 - 240 V AC / 50 - 60 Hz / 250 mA, output: 6 V DC / 1.4 A
Environmental conditions	
Operation	10 - 40 °C, 15 - 95 % RH (non-condensing), 60 - 120 kPa (excl. Li-Poly battery)
Storage	-20 - 70 °C, 10 - 95 % RH (non-condensing), 60 - 120 kPa (excl. Li-Poly battery)
Classification	
Product class	IIb (according to MDD 93/42/EEC)
Safety	Class of protection II / Type BF – Type and degree of protection against electrical shock
Construction	IPX1 (with silicone protective cover)
Standards	EN 60601-1:1988; IEC 60601-1-2:2007; IEC 60601-1-4:2000; IEC 60601-1-8:2006; ISO 21647:2004; ISO 9919:2005; ISO 5356-1:2004; DIN EN 1789:2007, EN864:1996
Miscellaneous	
Dimensions (L x W x D)	150 mm x 75 mm x 35 mm
Weight	< 400 g (complete device with batteries)

Specification subject to change

### Delivery Package of CapnoTrue® MG

- CapnoTrue®MG Multigas/SpO<sub>2</sub> Monitor
- IRMA™ AX+ Analyzer
- IRMA™ Airway Adapter (adult/paediatric)
- Reusable SpO<sub>2</sub> sensor (selectable, see order numbers)
- USB data cable
- Power supply (FW7660M/06)
- Power supply adapter (EU and UK plug)
- 1 Li-Poly battery (CT-2500)
- 4 batteries (AA Mignon)
- Silicone protective cover
- PC software (CD-ROM)
- User manual



The **CapnoTrue® MG** – Multigas/SpO<sub>2</sub> Monitors including the **IRMA™ AX+ Multigas Analyzer** and **SoftCap® Sensors** are classified and certified as class IIb products.

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## Leading-edge technology in anaesthetic agent monitoring, capnography and pulse oximetry



*The ultra-compact, ergonomic design of the CapnoTrue® MG combines outstanding performance and reliability in pulse oximetry and mainstream monitoring of anaesthetic agents and CO<sub>2</sub>.*

With its ultra-compact, light and easy-to-handle design, the new **CapnoTrue® MG** is the perfect flexible and mobile monitor for identifying and quantifying the five most important anaesthetic agents as well as other gases and parameters:

- Halothane, Isoflurane, Enflurane, Sevoflurane und Desflurane
- N<sub>2</sub>O
- etCO<sub>2</sub>, FICO<sub>2</sub>
- Oxygen saturation
- Respiration and Pulse Rate

By direct measurement in the mainstream, there is no time delay in the measuring data.

### Reliable automatic agent identification and quantification

The **IRMA™ AX+ Analyzer** is equipped with state-of-the-art NDIR technology with up to 9-channel gas type analysis in the 4-10 μm range and offers reliable agent identification and quantification even in gas mixtures. The IRMA AX+ Analyzer is lightweight, small and shock-resistant. It weighs less than 25 g.

### Key features of the CapnoTrue® MG

- Innovative micro-optic technology
- Direct mainstream measurement without time delay
- Compact, robust and ultra-light multigas analyzer
- Warm-up time: < 20 seconds full specification
- Maintenance and calibration-free technology
- Self-explanatory, ergonomic operating functions facilitate intuitive operation
- The colour information display, as well as the simple information structure, support quick decisions and a rapid user reaction in critical situations
- Leading-edge power management with standard alkaline batteries or Li-Poly batteries or medical power supply (or combined)
- Application ranges from adults to neonates
- Up to 18 language versions available
- Two years warranty

Per ulteriori informazioni contattate i nostri uffici e/o visitate il sito

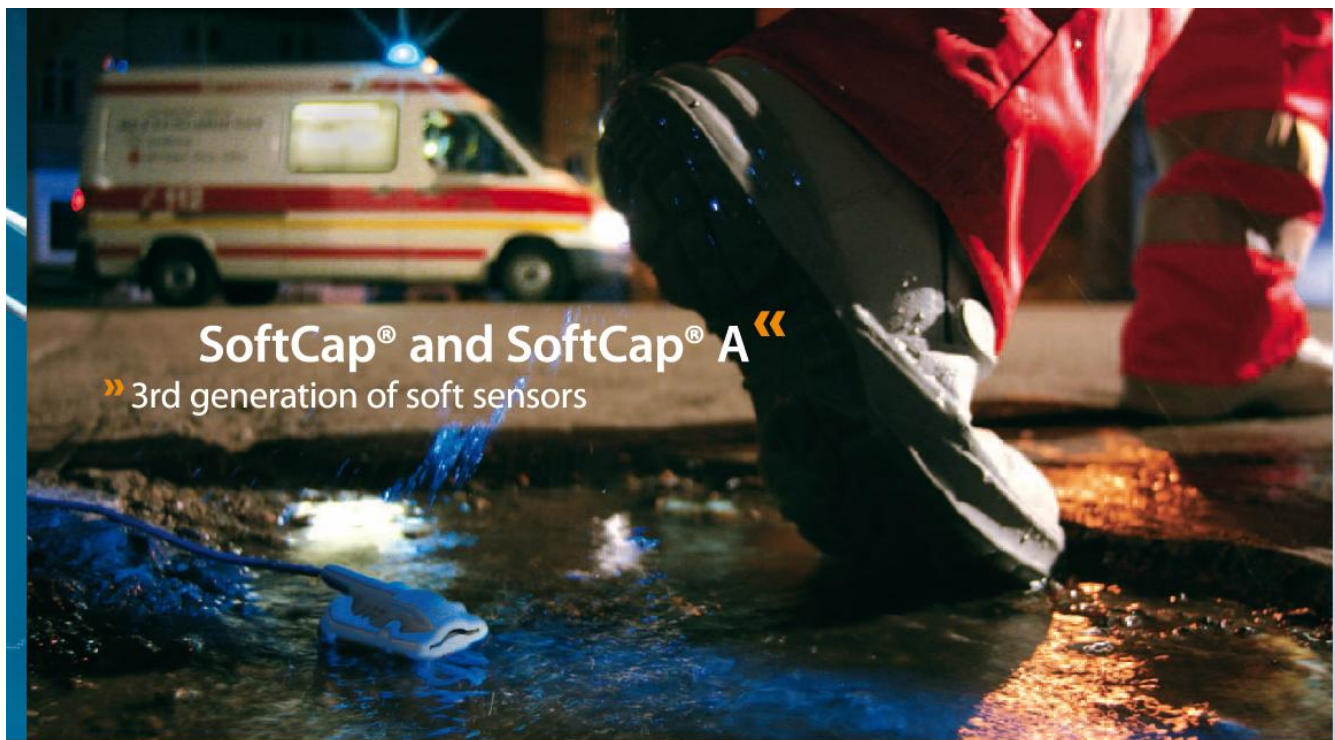
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## Key Technology Accessories

*The CapnoTrue® MG provides leading technology sensors and accessories.*

### SpO<sub>2</sub> sensors

A wide range of flexible, robust and hygienic adult and paediatric SpO<sub>2</sub> sensors is available, which includes 3rd generation soft sensors, wrap and ear sensors, as well as disposable sensors for use on adults through to neonates.

With the new **SoftCap® A Sensors**, it is now possible for the first time to **autoclave SpO<sub>2</sub> sensors at 134°C**, and to significantly reduce the risk of nosocomial infections caused by pathogenic microorganisms or multi-resistant germs. All reusable sensors are supplied with a **two-year-warranty**.



### Available sensors



SoftCap®



SoftCap® P



SoftWrap®



Disposables



Ear Sensor

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## Powerful CapnoTrue® MG PC Software

With the convenient **CapnoTrue® PC Software** all measuring values, selected alarm limits and alarm messages can be transferred to the computer via the USB interface. The data can be viewed on the computer and patient information added. The PC software enables basic statistical evaluation of the stored data.

The software can also be used to display and store the measurement values and alarm messages on the computer in parallel to ongoing measurements. This function is activated by setting the real-time mode on the **CapnoTrue®**. When this mode is activated, the device transfers the actual measurement values for the anaesthetic agents, N<sub>2</sub>O, etCO<sub>2</sub>, FICO<sub>2</sub>, SpO<sub>2</sub>, Respiration and Pulse Rate to the computer via the USB interface.

## CapnoTrue® MG Multigas Analyzer

The compact **IRMA™ AX+ Multigas Analyzer** which weighs just 25 g, sets new standards in mainstream anaesthetic agent monitoring and provides reliable and comprehensive monitoring of CO<sub>2</sub>, N<sub>2</sub>O, Halothane, Isoflurane, Enflurane, Sevoflurane and Desflurane through direct measurement without time delay.

- 9-channel NDIR gas type analysis (4-10 µm)
- Calibration and maintenance-free
- Compact and shock-resistant design
- Plug-and-measure technology

The **IRMA™ Airway Adapter** with low dead space volumes are supplied in two versions for adult/paediatric and infant/neonatal applications.

- Adult/paediatric version: dead space volume 6 ml
- Infant/neonatal version: dead space volume 1 ml
- Innovative non-condensing light transmission XTP™ window



## Applications

**CapnoTrue® MG** is well suited for monitoring CO<sub>2</sub>, N<sub>2</sub>O and oxygen saturations as well as the anaesthetic agents Halothane, Isoflurane, Enflurane, Sevoflurane and Desflurane during anaesthesia and mechanical ventilation.

**CapnoTrue® MG** can be used from adults to neonates in hospital and mobile operating rooms, recovery rooms, intensive care units and emergency care departments.

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## SENSORI SATURAZIONE/SpO2 SENSORS Disponibili anche AUTOCLAVABILI



fascetta di fissaggio per  
sensori saturazione



Disponibili anche sensori monouso/SpO2 disposable sensors available  
**BRACCIALI NIBP (MONOUSO E RIUTILIZZABILI) E PROLUNGHE -- NIBP CUFF  
(DISPOSABLE - REUSABLE) AND HOSES**



CAVI CONNESSIONE SENSORI/TRASDUTTORI MONOUSO PRESSIONE INVASIVA -- REUSABLE CABLES FOR INVASIVE  
PRESSURE SENSORS/TRASDUCERS (IBP): Marquette, Philips(HP), Mindray, Spacelabs a sensori-trasduttori/  
to sensors-trasducers Abbott, Utah, BD, Edward



SONDE TEMPERATURA CUTANEA, RETTALE ESOFAGEA, TIMPANICA--TEMPERATURE SENSORS (DISPOSABLE AND  
REUSABLE)

rettale esofagea/multipurpose  
adulto/adult pediatrica/pediatric  
YSI 401 YSI 402



connessioni al monitor  
monitor side



cutanea/skin surface  
adulto/adult pediatrica/pediatric  
YSI 409B YSI 427



**BATTERIE PER APPARECCHIATURE--BATTERIES FOR MEDICAL USE:**

(Per maggiori informazioni su compatibilità, modelli disponibili, prezzi, contattate i nostri uffici/ for more informations about quotation  
and compatibility contact our office) **PHILIPS/HP**(Viridia, M3, M3046A, Merlin System; Defibrillatori: HeartStart, 43100 series,  
Codemaster series **GE Medical**(Marquette: Eagle series, Dash series, Tram series, **Datex Ohmeda** Monitor e Saturimetri,  
**Critikon**:Dinamap) **Siemens**(Sirecust, Elettrocardiografi:Cardiostat, Siccard; Monitor: Sirecust, SC 5000/6000/ 7000/8000/9000) **Nellcor**:  
Saturimetri e monitor, **Abbott**: pompe infusione **Alaris**: Pompe infusione **Braun**: Pompe infusione; **Sherwood**: pompe infusione; **Nonin**:  
Saturimetri e Monitor; **Zoll** Defibrillatori mod. Mserie, PD; **Laerdal** Defibrillatori, **Cardiac Science** Defibrillatori; **BCI** saturimetri e  
monitor.

**CELLE OSSIGENO(O2)/OXIGEN SENSOR(O2) per Respiratori/ventilatori:** Siemens, Draeger, Datex Ohmeda, Hamilton, Puritan  
Bennet, Respirationics, Soxil, Teledyne, Envitec, Maxtec.