

Technical data

Display			
Parameters displayed	Numerical	End-tidal (et) CO ₂ -, N ₂ O- and agent concentrations, inspired (Fi) CO ₂ -, N ₂ O- and agent concentrations, oxygen saturation (SpO ₂), 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 anaesthetic agent measurement specifications			
Measurement Range	etCO ₂ and FiCO ₂	0 - 15 %	
	FiN ₂ O	0 - 100 %	
	Hal, Iso, Enf	0 - 8 %	
	Sev	0 - 10 %	
	Des	0 - 22 %	
	Respiration Rate	0 - 150 1/min	
Accuracy	etCO ₂ and FiCO ₂	+/- (0.2 Vol % + 2 % of reading) +/- (0.3 Vol % + 4 % of reading) incl. interfering gases	
	N ₂ 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) +/- (0.2 Vol % + 10 % of reading) incl. interfering gases	
	Respiration Rate	+/- 1 digit	
	Warm-up time	< 20 seconds full specification	
	Pulse oximetry specifications		
Measurement Range	SpO ₂	0 - 100 %	
	Pulse Rate	20 - 300 1/min	
Accuracy	SpO ₂	+/- 2 % (70 to 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/1 h/6 h		
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: 90 - 260 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)

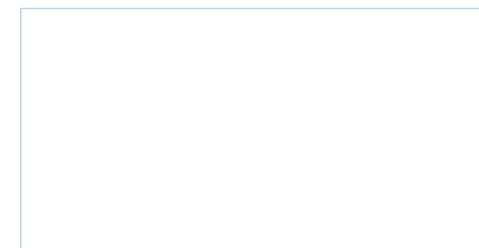
Specification subject to change

Delivery Package of CapnoTrue® MG

- CapnoTrue® MG AA/CO₂/SpO₂ Monitor
- IRMA AX+ Analyzer
- IRMA Airway Adapter (adult/paediatric)
- Reusable SpO₂ 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

For further accessories, please visit www.bluepoint-medical.com

bluepoint® MEDICAL sales partner



The CapnoTrue® MG AA/CO₂/SpO₂ Monitors including the IRMA AX+ Multigas Analyzer and SoftCap® Sensors are classified and certified as class IIb products.

For further information, please visit www.bluepoint-medical.com

bluepoint MEDICAL

CapnoTrue® MG – AA/CO₂/SpO₂ Monitor

High-performance and versatile anaesthetic agent monitoring



» PRODUCTS that care for you «



Made in Europe

German and Swedish Technology



SoftCap® and SoftCap® A “
 ” 3rd generation of soft sensors

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 CO₂.

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 and Desflurane
- N₂O
- etCO₂, FiCO₂
- 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

For further information, please visit www.bluepoint-medical.com

Key Technology Accessories

The CapnoTrue® MG provides leading technology sensors and accessories.

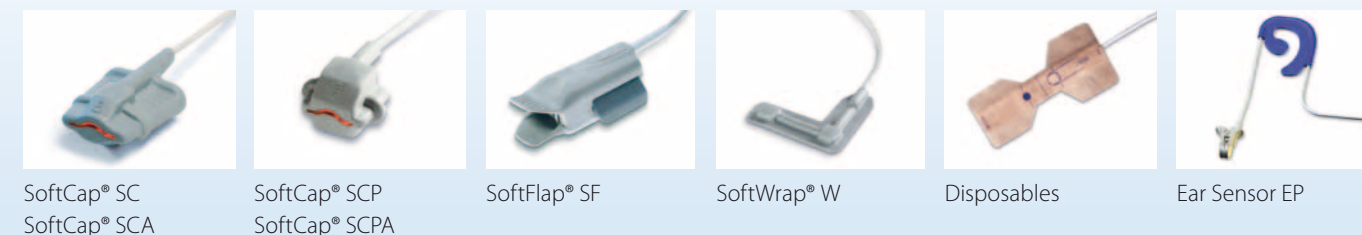
SpO₂ sensors

A wide range of flexible, robust and hygienic adult and paediatric SpO₂ 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 SpO₂ 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



Powerful CapnoTrue® MG PC Software

With the convenient CapnoTrue® MG 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, N₂O, etCO₂, FiCO₂, SpO₂, Respiration and Pulse Rate to the computer via the USB interface.



Applications

CapnoTrue® MG is well suited for monitoring CO₂, N₂O 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 infants in hospital and mobile operating rooms, recovery rooms, intensive care units and emergency care departments.

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 CO₂, N₂O, 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 applications.

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