

# Capnotrue® MG-AA/CO2/SPO2 monitors (for rats and large animals)



#### **Features**

High-performance and versatile anaesthetic agent monitoring.

- 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, ergonimic operating function faci- litate intuitive operation
- The colour information display, as well as the sim- ple information stucture, support quick decisions and a rapid user reaction in critical situations
- Leading-edge power management with standard alkanline batteries or Li-Poly batteries or medical power supply (orcombined)
- Two years warranty.

## Dilivery Package

- CapnoTure MG Multigas/SpO2 Monitor
- IRMA™ AX + Analyser
- Instruction manual
- 1 Li-ion rechargeable batterij
- PC software
- 4 batteries (AA)
- IRMA™ Airway Adapter
- Reusable SpO<sup>2</sup> sensor
- Silicone protective cover
- USB data cable
- Manual





The CapnoTrue MG Monitor can be used in combination with the uno MiCroVenTiLaTor - uMV-03.

The CapnoTrue MG monitors including the IRMA $^{\text{\tiny M}}$  CO2 analyzer, ISA $^{\text{\tiny M}}$ CO2 analyzer and SoftCap Sensors are classified and certified as class IIb products.

### Tecnical data

Display				
	Numerical	End-tital (et) CO <sup>2</sup> ,-,N <sup>2</sup> O-and agent concentrations, inspired (Fi) CO <sup>2</sup> , N <sup>2</sup> O and agent concentrations (SpO <sup>2</sup> ), Respiration Rate (RR), Pulse Rate (PR)		
Parameters displayed	Graphical	Capnogram and trends of numerical data (15 min/l 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 <sup>2</sup> and FICO <sup>2</sup>	0-15%		
	FIN <sup>2</sup> O	0-100%		
	Hal, Iso, Enf	0-8%		
	Sev	0-10%		
	Des	0-22%		
	Respiration rate	0-150 l/min		
Accuracy	EtCO <sup>2</sup> en FICO <sup>2</sup>	+/- (0,2 vol % + 2% of reading) +/- (0,3 vol % + 4% of reading) incl. interfering gasses		
	N <sup>2</sup> O	+/- (2 vol % + 2% of reading) +/- (3 vol % + 5% of reading) incl. interfering gasses		
	Hal/Iso/Enf/Sev/Des	+/- (0,15 vol % + 5% of reading) +/- (0,2 vol % + 10% of reading) incl. interfering gasses		
	Ademhalingsvolume	+/- 1		
Warm-up time	<20 seconds full specification			
Pulse Oximetry Specifications				
Measurement Range	SpO <sup>2</sup> Pulse Rate	1 -100% 20-300 l/min		







Accuracy	SpO <sup>2</sup> Pulse Rate	+/- 2% (70 bis 100%) +/- 1 digit (up to 100 l/min) or +/- 1% (> 100 l/min)		
Trend Information				
Long term trend	up to 150 hours			
Short term trend	15 min/l u./6h			
Alarms				
Limits	Adjustable limits for all numerical parameters except for MaC			
Alerts	Audible and visual alarms (comlies with EN60601-1-8)			
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			
Power supply				
Battery	Working time with full functionalilty approx. 4,5 hours, 4 alkalline batteries (AA/LR6/AM3/MN1500/Mignon), 1,5V			
Li-Poly battery	Working time with full funtionalilty approx. 7 hours, Li-Poly battery, Model No CT-2500, 3,7V, 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: 100-240V AC/50-60Hz / 250 mA, output: 6 VDC/1,4A			
Specifications Environmental conditions				
Operation	10 - 40°C, 15 -95% r.H. (non-condensing), 60 - 120 kPa (excl. Li-poly battery)			
Storage	-20 -70°C, 10 - 95% r.H. (non-condensing), 60 - 120 kPa (excl. Li-poly battery)			
Classification				
Product class	IIb (in accordance with MDD 93 / 42 /EEC)			
Safety	Class of protection II / type BF - Type and degree of protection against shock			
Construction	IPX1 (with silicone protective cover)			
Normen	EN 60601-1:2006, IEC 60601-1-1:2001, IEC 60601-1-4-2000; IEC 60601-1-8:2006: ISO 21647:2004:ISO 9919:2005; ISO 5356-1:2004; DIN EN 1789:2007, EN846:1996			
Miscellaneous				
Dimensions	150 mm x 75 mm x 35 mm			
Weight	< 400 g (complete device with batteries)			







With its ultra-compct, light and easy to handle design, the Capnotrue®MG is the perfect felxible 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
- N<sup>2</sup>O
- 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  $4-10\mu m$  range and offers reliable agent identification and quantification even in gas mixtures. It weighs less than 25 g.

#### Probes to be used with rat

## Probes to be used with large animals





## Ordering number

180000171	Capnotrue MG (Multigas)
180000172	Adjusted Probe to be used with Rats
180000173	Probe to be used with larger Animals

