veterinary

VM-2500-MG

Multigas/SpO₂ Monitor

High performance and versatile anaesthetic agent monitoring

Innovative micro-optic technology

Direct mainstream measurement without time delay

Warm-up time: < 1 minute to full specification</p>

Maintenance and calibration-free technology

Colour OLED display





The ultra-compact, light and easy to handle design of the Capnograph Multigas Monitor 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
- N_aO
- etCO₂, FiCO₂
- Oxygen saturation
- Respiration and Pulse Rate

By direct mainstream measurement, there is no monitoring time delay.



The ultra-compact, ergonomic design of the Capnograph MG combines outstanding performance and reliability in pulse oximetry and mainstream monitoring of anaesthetic agents and CO **Standard Package** Capnograph Multigas Monitor

- IRMA™ AX+ analyser
- IRMA™ Airway adapter (Small and Large)
- Reusable SpO₂ sensor*
- USB data cable
- Power supply (FW7660M/06)
- Power supply plugs (UK and EU)
- 4 x AA batteries
- 1 x Li-Poly battery (CT-2500)
- Silicone protective cover
- PC software
- Instruction manual on CD
- * Please select either Lingual Sensor or Multi-site Y Sensor, and indicate at the time of ordering



Reliable automatic agent identification and quantification

The IRMA AX+ Analyser 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+ Analyser is lightweight, small and shock-resistant. It weighs less than 25g.

Key features of the Capnograph MG

- Innovative micro-optic technology
- Direct mainstream measurement without time delay
- Compact, robust and ultra-light multigas analyser
- Warm-up time: < 1 minute to full specification
- Maintenance and calibration-free technology
- Self-explanatory, ergonomic operating functions facilitate intuitive operation
- The Colour OLED 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)

Screen Display Options



Multi Trend - 15 minutes



Numerical 1 Anaesthetic Agent



Standard 1 Anaesthetic Agent



Standard 2 Anaesthetic Agents



Powerful Capnograph MG PC Software

With the convenient Capnograph MG PC Software all measured 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 of the Capnograph MG. 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.

Capnograph MG Multigas Analyser

The IRMA AX+ Multigas Analyser which weighs just 25g, sets new standards in mainstream anaesthetic agent monitoring and provides reliable and comprehensive monitoring of CO_2 , N_2O , 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 and supplied in two versions for small and large animal applications.

- Large version: dead space volume 6ml. Part Number: 4420511
- Small version: dead space volume 1ml. Part Number: 4420521
- Innovative non-condensing light transmission XTP™ window

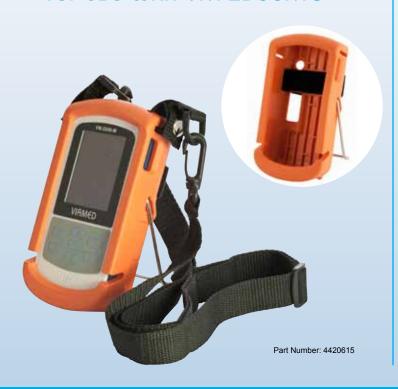


Applications

Capnograph MG is well suited for monitoring CO₂, N₂O and oxygen saturations as well as the anaesthetic agents Halothane, Isoflurane, Enflurane, Sevoflurane and Desflurane during anaesthetia and mechanical ventilation.

Capnograph MG can be used on small to large animals in veterinary surgeries, mobile operating rooms and recovery rooms.

Protective Rubber Boot for use with VM-2500MG



Carrying Case for VM-2500MG



Abrasion and tear resistance

High visibility and reflective properties

Mounting Options and Accessories



















SpO₂ Sensors and Accessories













Part Number: 0025011



Part Number: 0025012

VM-2500-MG Multigas/SpO, Monitor **Technical Data**

Display

Parameters displayed Numerical End-tidal (et) CO₂, N₂O and agent concentrations, inspired (Fi) CO₂, N₂O, and agent

concentrations, oxygen saturation (SpO₂), Respiration Rate (RR), Pulse Rate (PR)

Capnogram and trends of numerical data (15 min/1 hour/6 hours) Graphical

Signal strength and signal quality, pulse amplitude, battery status, alarm mute, pulse tone mute, Indicators

storage status, real-time mode, neonatal mode, time

Active OLED colour display, 262,000 colours, 240 x 320 pixel (42 mm x 56 mm) Characteristics

Capnography and Anaesthetic agent measurement specifications

Measurement Range etCO₂ and FiCO₂ 0 - 15%

FiN₂O 0 - 100% Hal, Iso, Enf 0 - 8% Sev 0 - 10% Des 0 - 22%

Respiration Rate 0 - 150 1/min ± (0.2 Vol % + 2% of reading)

± (0.3 Vol % + 4% of reading) including interfering gases

± (2 vol % + 2% of reading) ± (2 vol % + 5% of reading) including interfering gases

± (0.15 Vol % + 5% of reading) Hal/Iso/Enf/Sev/Des

± (0.2 Vol % + 10% of reading) including interfering gases

Respiration Rate ± 1 digit

< 20 seconds to full specification Warm-up time

Pulse Oximetry Specifications

Measurement Range SnO 0 - 100%

Pulse Rate 20 - 300 1/min SpO.

± 1 digit (up to 100 1/min) or ± 1% (> 100 1/min) Pulse Rate

Trend Information

Long term trend up to 150 hours Short term trend 15 min/1 hour/6 hour

Alarms

Accuracy

Limits Adjustable limits for all numerical parameters except for MAC **Alarms** Audible and visual alarms (complies with EN 60601-1-8)

Storing Data

USB 2.0 Communication Interface **Data Memory Capacity**

Visualisation and storage of numerical parameters on a computer every 4 seconds Real-time mode

Capnograph MG PC Software for data download and real-time mode Computer software

Power Supply

Working time with full functionality approximately 4.5 hours, 4 alkaline batteries (AA/LR6/AM3/MN1500/Mignon), 1.5V Li-Poly battery

Working time with full functionality approximately 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, input: 90 - 260V AC/50 - 60 Hz/ 250 mA, output: 6V DC/1.4A.

Environmental conditions

Operation 10 - 40°C, 15 - 95% RH (non-condensing), 60 - 120 kPa (excluding Li-Poly battery) Storage

- 20 - 70°C, 10 - 95% RH (non-condensing), 60 - 120 kPa (excluding Li-Poly battery)

Classification

Safety

Ilb (according to MDD 93 / 42 / EEC) Class

Class of protection II/Type BF - Type and degree of protection against electrical shock

IPX1 (with silicone protection cover)

EN 60601-1:1988; IEC 60601-1-2:2007; IEC 60601-1-4:2000; IEC 60601-8:2006; ISO 21647:2004; ISO 9919:2005; Standards

ISO 5356-1:2004; DIN EN 1789:2007; EN864:1996.

Dimensions and Weight 150 (L) x 75 (W) x 35 (D) mm, < 400g (complete device with batteries)

Part Numbers

Veterinary Capnograph with Multigas Language Package - Central European, including: English, Dutch, German, Spanish, French, Italian, Swedish and Russian VM-2500-MG

Additional Accessories Available	
IRMA AX+ Analyser	4420506
Multi-site Y Sensor	0015002
Lingual Sensor	0015000
Lingual Clip (Small)	0025010
Lingual Clip (Medium)	0025011
Lingual Clip (Large)	0025012
Pulse Oximetry Extension Cable, 1.2m cable length (XT6500)	0014895
Pulse Oximetry Extension Cable, 2.4m cable length (XT6501)	0014896
Silicone Protective Cover	0022160
Carrying Case	4420620
Carrying Case with clear front	4420621
Protective Rubber Boot	4420615
Universal Mounting Plate Rev. 1	4420600
Universal Mounting Plate Rev. 2	4420601
'V' mount wall plate	0121180
'V' mount pole clamp (Small: 14 - 25mm span)	0121181
'V' mount pole clamp (Large: 16 - 40mm span)	0121182
'V' mount rail clamp	0121184
'V' mount pole clamp, multi-position	0121197
Universal Mounting Clamp, with vertical and horizontal adjustments	0121200

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