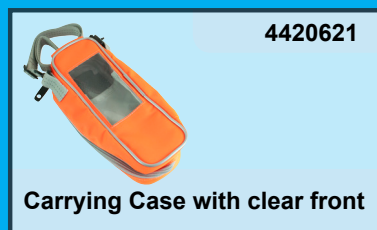


VM-2500 CO₂/SpO₂ Monitor

Measuring Range	
EtCO ₂ and FiCO ₂	0 - 15 Vol%, or expressed as kPa or mmHg
SpO ₂	0 - 100%
Respiration Rate	0 - 150 breaths/min
Pulse Rate	20 - 300 bpm
Accuracy	
EtCO ₂ and FiCO ₂	± (0.2 vol% + 2% of reading)
SpO ₂	± (0.3% vol % + 4% of reading) inc. interfering gases
Respiration Rate	± 2% (70 - 100%)
Pulse Rate	± 1 digit at 60 breaths/min ± 1 digit (≤ 100/min) or ± 1% (> 100/min)
Display	
Features	Colour OLED, 262,000 colours, 240 x 320 pixels
Data displayed	End-tidal CO ₂ and inspired CO ₂ in volume %, kPa or mmHg, oxygen saturation, respiration rate, pulse rate, capnogram, plethysmogram, bar graph, short term trends
Indicators	Signal strength and signal quality, pulse amplitude, battery status, alarm silenced, volume silenced, neonatal mode, time, storage capacity full
Trend Information	
Short Term Trend	15 min/1 hour/6 hours (stored and displayed)
Long Term Trend	Approximately 400 hours (stored)
Environmental Conditions	
Operating temperature	0 - 50°C, 15 - 95% R.H. (non-condensing), 60 - 120 kPa (excl. Li-ion battery)
Storage temperature	-30 - 70°C, 10 - 95% R.H. (non-condensing), 60 - 120 kPa (excl. Li-ion battery)
Regulatory Approvals	
Standards	CE BS EN 60601-1:2006, BS EN 60601-1-1:2001, BS EN 60601-1-2:2007, BS EN 60601-1-8:2004, EN 60529, EN ISO 21647:2004, BS EN ISO 9919:2005
Safety	Class II, Type BF
Assembly	
Construction	IPX1
Dimensions	150 mm (L) x 75 mm (W) x 35 mm (H)
Weight	Approximately 400g (complete device with batteries)
Power Supply	Power supply 90 - 260 VAC/6 VDC, 50 - 60 Hz, 2.5 Ah Li-ion battery or 4 x AA alkaline batteries
Battery Life	AA batteries: with full functionality VM-2500-M > 6 hours, VM-2500-S > 3 hours Li-ion battery: with full functionality VM-2500-M > 7 hours, VM-2500-S > 5 hours
PC interface	USB 2.0
Part Numbers	
VM-2500-M Mainstream Capnograph*	4410530
VM-2500-S Sidestream Capnograph*	4410540
* Language Package: Central European, including: English, Dutch, French, German, Italian, Spanish, Swedish and Russian (additional language versions available on request)	
Additional Accessories Available	
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
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

Mounting Options



Carrying Case for VM-2500



- Fluid repellent
- Non rot
- U.V. stable
- Washable at 60°C
- Self healing and waterproof zips
- micrAgard silver-lining inners
- Abrasion and tear resistance
- High visibility and reflective properties

Part Number: 4420620

Distributed by:



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BS EN ISO 9001:2008
ISO 13485:2003



Part Number: 0092185
Date: 05/13

FS 28344 MD 78787



VM-2500 CO₂/SpO₂ Monitor

High performance capnography with either mainstream or sidestream measurement for veterinary applications

- Robust and ergonomic design
- Fast warm-up time
- Rapid response time
- Extremely accurate and reliable measurement
- CO₂ and SpO₂ combined
- Displays EtCO₂, FiCO₂, SpO₂, respiration and pulse rate, capnogram and plethysmogram
- Maintenance and calibration-free technology
- Clear and bright, colour OLED display offers superior clarity
- For intubated and non-intubated patients



**VM-2500-M
Mainstream Unit**

The ultra-compact, ergonomic design of the VM-2500-M and VM-2500-S combine outstanding performance and reliability in mainstream or sidestream CO₂ and SpO₂ monitoring.

The VM-2500-M and VM-2500-S combine innovative technologies and design with the latest materials, to create extremely accurate and reliable measurement for intubated or non-intubated patients.

The mainstream unit utilises the advanced IRMA™ CO₂ Analyser; to precisely determine gas concentration in the mixture.

The sidestream unit utilises the advanced ISA™ CO₂ Analyser; with Nomo technology to eliminate problems caused by water secretions affecting the reading.

These units incorporate the latest Organic LED display technology, offering unrivalled clarity, in even the most difficult of lighting conditions.



**VM-2500-S
Sidestream Unit**

The ultra-compact, ergonomic design of the VM-2500 combines outstanding performance and reliability in for either mainstream or sidestream CO₂ and SpO₂ monitoring.

Mainstream Standard Package

- Mainstream Unit
- IRMA™ CO₂ analyser
- IRMA™ Airway adapter (Small and Large)
- Reusable SpO₂ sensor*
- USB data cable
- Power supply (EU and UK Plug)
- 4 x AA batteries
- 1 x Li-Poly battery (CT-2500)
- Silicone protective cover
- PC software
- Instruction manual on CD

N.B. Please select either Lingual Sensor or Multi-site Y Sensor, and indicate at the time of ordering



Key Features of the VM-2500-M

- Mainstream CO₂ measurement with the **IRMA™ CO₂ Analyser**
- Fast warm-up time of < 10 seconds to full specification
- 'PLUG-IN and MEASURE...'™ technology - **no integration procedures** or associated expenses required
- **No occlusion by water or mucus possible**
- **IRMA airway adapter with XTP™ non-condensing** light transmission window
- Small, lightweight and shock-resistant; the **IRMA™ CO₂ Analyser** weighs less than 30g
- Direct measurement **without time delay**
- For intubated and non-intubated patients
- Maintenance and calibration-free technology
- Wide range of accessories and SpO₂ sensors available



VM-2500-M Accessories Mainstream Measurement

The **IRMA™ CO₂ Analyser** sets new standards in CO₂ mainstream monitoring and provides reliable, safe and easy CO₂ monitoring by direct measurement, without time delay.

- Small and lightweight
- 'PLUG-IN and MEASURE...'™ technology
- Shock resistant

The **IRMA™ Airway Adapters** are supplied in two versions; small and large animal.

- Non-condensing light transmission XTP™ window
- Single patient use





Nomo Adapter



Sampling Line



Airway Adapter
(15 mm)

Sidestream Standard Package

- Sidestream Unit
- Nomo adapter
- Sampling Line
- Sidestream airway adapter
- Reusable SpO₂ sensor*
- USB data cable
- Power supply (EU and UK Plug)
- 4 x AA batteries
- 1 x Li-Poly battery (CT-2500)
- Silicone protective cover
- PC software
- Instruction manual on CD

N.B. Please select either Lingual Sensor or Multi-site Y Sensor, and indicate at the time of ordering



Key Features of the VM-2500-S

- Sidestream CO₂ measurement with the **ISA™ CO₂ Analyser** and Nomo technology
- Fast warm-up time of < 10 seconds to full specification
- The **Nomo Adapter** uses Nomo technology which **removes water** and **vapour** from the sampled gas
- The Nomo Adapter includes a hydrophobic bacterial filter to **protect against water intrusion and cross contamination**
- Specially designed for **low flow applications**; 50 ml/min sampling flow rate
- For intubated and non-intubated patients
- Maintenance and calibration-free technology
- Wide range of accessories and SpO₂ sensors available

VM-2500-S Accessories Sidestream Measurement

Together with the **Nomo technology**, that removes water from the sampled gas, the **ISA™ CO₂ Analyser** delivers the highest performance in an ultra compact format.

The **Nomo Adapter** incorporates unique water separation properties, made of a special polymer - with an integrated hydrophobic bacterial filter. The Nomo Adapter passes water vapour and condensed water through its membrane like surface and evaporates into the surrounding air, while leaving the carbon dioxide concentration unaffected.

The Nomo technology allows for up to two weeks of continuous monitoring with high moisture containing breathing gases - **a first for capnography**.

The Nomo Adapter contains a hydrophobic bacterial filter (> 99.9980%) to protect the **ISA™ CO₂ Analyser** from water intrusion and cross contamination.

Additional Sidestream Accessories



Airway adapter and
Sampling Line



Nasal sampling
line

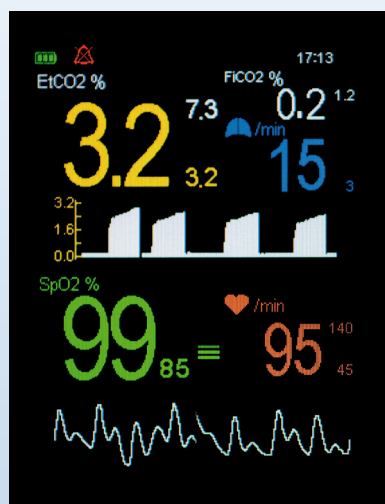


Nasal sampling cannula
available in Large and
Small



15 mm Airway Adapters,
available with I.D 2.0 mm
to 10.0mm

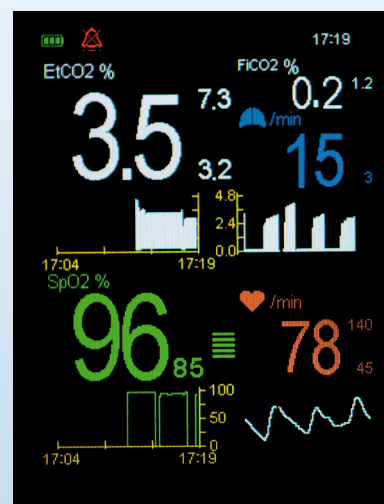
Screen Display Options



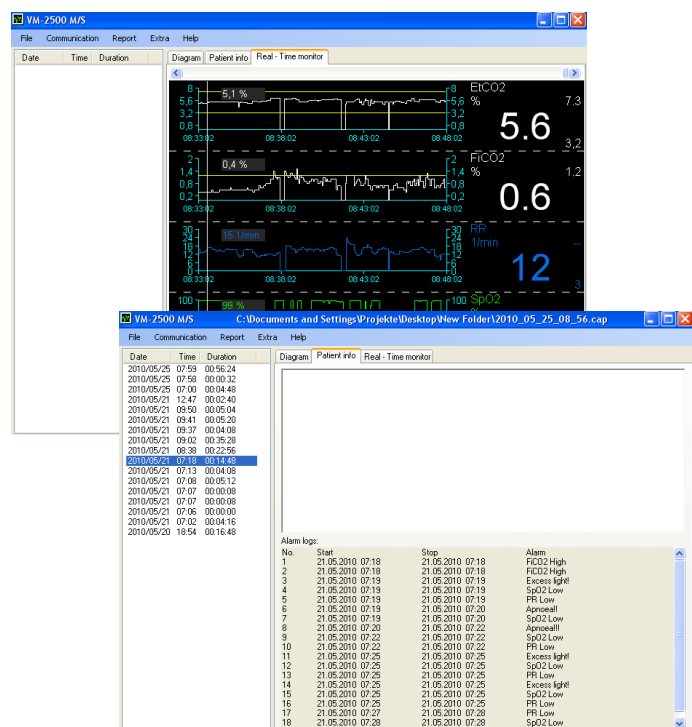
Standard Display Format



Large Digit Display



Trending Digit Display Format



Powerful Capnograph PC Software

With the convenient Capnograph 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. When this mode is activated, the device transfers the actual measurement values for etCO₂, FiCO₂, SpO₂, Respiration and Pulse Rate measurement values every 4 seconds to the computer via the USB interface.

Available Sensors and Accessories



For use with Multi-site Y Sensor

