

Sensors and Cables

 0014650 Reusable Adult Finger Sensor 1.2m cable length	 0014755 Reusable Adult Silicone Soft Sensor 0.3m cable length	 0014756 Reusable Paediatric Silicone Soft Sensor 0.3m cable length	 0014825 Reusable Ear Sensor 1.2m cable length	 Disposable Micro Foam Tape Box of 24 sensors Adult Paediatric Infant Neonatal 0014985** 0014986** 0014987** 0014988**
 0014835 Reusable Silicone Wrap Sensor 1.2m cable length Autoclavable version 0014592 Reusable Autoclavable Silicone Wrap Sensor 1.2m cable length	0014750 Reusable Adult Silicone Soft Sensor 1.2m cable length Autoclavable versions 0014795 Reusable Adult Autoclavable Silicone Soft Sensor 0.3m cable length 0014790 Reusable Adult Autoclavable Silicone Soft Sensor 1.2m cable length	0014751 Reusable Paediatric Silicone Soft Sensor 1.2m cable length Autoclavable versions 0014796 Reusable Paediatric Autoclavable Silicone Soft Sensor 0.3m cable length 0014791 Reusable Paediatric Autoclavable Silicone Soft Sensor 1.2m cable length	 0014895 Pulse Oximetry Extension Cable 1.2m cable length 0014896 Pulse Oximetry Extension Cable 2.4m cable length	 Disposable Transpore Tape Box of 24 sensors Adult Paediatric 0014989 0014990  Disposable PlasterTape Box of 24 sensors Adult Paediatric Infant Neonatal 0014993 0014994 0014995 0014996

** Contact Viamed regarding availability

Technical Specifications

Measuring Range SpO ₂ Pulse Rate	0 - 100% 20 - 300 bpm
Accuracy SpO ₂ (70 - 100%) Pulse Rate	1<3.0% Accuracy A _{RMS} *, ± 1 S.D = 2.0% ± 1 digit (≤100bpm) ± 1% (>100 bpm)
Optical Specifications Red emitter Infra-red emitter	660nm, typ 3.5mW 905nm, typ 3.5mW
Display Features Date displayed Indicators	Colour OLED, 26,000 colours, 128 x 160 pixels Oxygen saturation, pulse rate, plethysmogram, bar graph, short and long term trends Signal quality, pulse amplitude, battery status, alarm silenced, sensor detection, sensor disconnection
Trend Information Short term trend Long term trend	15 / 30 / 240 minutes > 480 hours
Environmental Conditions Operating temperature Storage temperature	-20 - 50°C , 15 - 95% RH, 600 - 1300 hPa -30 - 70°C, 10 - 95% RH, 600 - 1500 hPa
Regulatory Approvals Standards	CE Class IIb in accordance with MDD 93/42/EEC BS EN 60601-1:2006, BS EN 60601-1-1:2001 BS EN 60601-1-2:2007, BS EN ISO 9919:2005 Class II, Type BF
Safety	
Assembly Construction Dimensions Weight Power Supply Battery Life PC interface	IPX2 with silicone cover, splash-proof version of IPX4 available on request. 118 mm (L) x 60 mm (W) x 25 mm (H) Approx. 160 g (including batteries, without sensor) 3 x AA alkaline batteries. > 2 days continuous operation or approx 5 days in economy power mode USB 2.0

Part Numbers

VM-2160-L* EAN-13 (GTIN-13) Barcode: 5051826002582 NHS Stock Code: FBC205 * Language package: Central European, including: English, Afrikaans, Dutch, French, German, Hungarian, Italian, Polish, Portuguese and Spanish.	0012155
VM-2160-L - Scandinavian languages (English, Danish, Finnish, Swedish) VM-2160-L - Special EU characters languages (English, Greek, Russian, Turkish) VM-2160-L - Asia I languages (English, Chinese and Traditional Chinese) VM-2160-L - Asia II languages (English, Japanese and Korean)	0012156 0012157 0012158 0012159
VM-2160* EAN-13 (GTIN-13) Barcode: 5051826000007 NATO Stock Number: 6515-99-915-8170 NHS Stock Code: FBC204 * Language package: Central European, includes: English, Afrikaans, Dutch, French, German, Hungarian, Italian, Polish, Portuguese and Spanish.	0012160
VM-2160 - Scandinavian languages (English, Danish, Finnish, Swedish) VM-2160 - Special EU characters languages (English, Greek, Russian, Turkish) VM-2160 - Asia I languages (English, Chinese and Traditional Chinese) VM-2160 - Asia II languages (English, Japanese and Korean)	0012161 0012162 0012163 0012164

Mounting Options and Accessories

 0021013 Posey Wrap Pack of 12	 0021018 Posey Wrap Paediatric Pack of 12	 0022160 Silicone Protective Cover	 0022170 Carrying Bag	 0022171 Universal Mounting Plate
 0121200 Universal Mounting Clamp	 0121183 'V' Mount Pole Clamp Horizontal	 0121184 'V' Mount Rail Clamp Small: 14 - 25mm span	 0121182 'V' Mount Pole Clamp Large: 16 - 40mm span	 0121202 'V' Wall Mount

* in accordance with ISO 9919:2005 Standards.

CE 0086

Distributed by:



Part Number: ??????
Date: 01/13



Viamed Limited · 15 Station Road · Cross Hills
Keighley · West Yorkshire · BD20 7DT · United Kingdom
Tel: +44 (0)1535 634 542 Fax: +44 (0)1535 635 582
Email: info@viamed.co.uk Website: www.viamed.co.uk



BS EN ISO 9001:2008
ISO 13485:2003

pulse oximetry



VM-2160

Hand Held Pulse Oximeter

Designed with the most difficult conditions in mind

- For spot checking or constant monitoring of SpO₂ and pulse rate
- Clear and bright, colour OLED display
- Robust, ergonomic design with durable silicone protective cover
- Includes a 3rd generation soft silicone sensor*
- Stores and restores up to 480 hours of trend data
- Adjustable high and low alarms
- Antibacterial keypad



The ergonomic VM-2160 hand held pulse oximeter has the durability of a compact and lightweight hand held unit for spot checking of SpO₂, but also has the power and functionality of a stand alone pulse oximeter.

The VM-2160 incorporates adjustable high and low alarms for both the SpO₂ and pulse rate with audible pulse tones, and is able to store and restore up to 480 hours of patient trend data, enabling the unit to also be used at the bedside for continual patient monitoring.

Utilising the latest Organic LED display technology, the clear and bright colour screen offers superb visibility in all lighting conditions, including direct sunlight.

The VM-2160 can be used in a variety of applications, from use in hospitals, paramedic ambulances, clinics and dental surgeries - making this an extremely flexible and durable piece of equipment.



The VM-2160-L offers a robust, ergonomic design unit for spot monitoring of SpO₂ and Pulse rate

- For spot checking of SpO2 and Pulse Rate
- Clear and bright, colour OLED display
- Robust, ergonomic design with durable silicone protective cover

VM-2160-L Light Version

- VM-2160-L
- Reusable adult finger sensor*
- Silicone protective cover
- 3 x AA batteries

N.B. Please select from Soft Sensor (Adult or Paediatric), Finger Sensor, Silicone Wrap Sensor, Ear Sensor and indicate at the time of ordering. Autoclavable sensors are available.



The VM-2160 offers a efficient and cost effective solution for spot monitoring or constant monitoring of SpO₂ and Pulse rate

- For spot checking or constant monitoring of SpO₂ and Pulse Rate
- Includes a 3rd generation soft silicone sensor - *other sensors can be specified
- Stores and restores up to 480 hours of trend data
- Adjustable high and low alarms

VM-2160 Standard Package

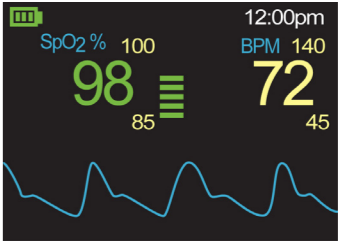
- VM-2160
- Reusable adult silicone finger sensor*
- Silicone protective cover
- PC review software
- USB data cable
- 3 x AA batteries

N.B. Please select from Soft Sensor (Adult or Paediatric), Finger Sensor, Silicone Wrap Sensor, Ear Sensor and indicate at the time of ordering. Autoclavable sensors are available.

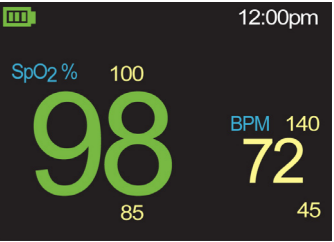


Actual Size

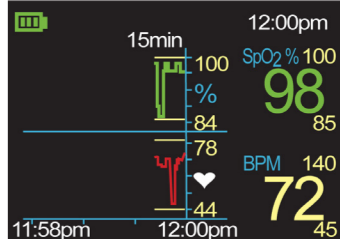
Display Formats



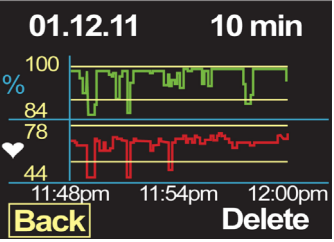
Default Display



Large Digit Display



Short Term Trending Display



Long Term Trending Display*

* Not available on VM-2160-L

Key features of the VM-2160-L Hand Held Pulse Oximeter

The VM-2160-L from the proven and well established VM-2160 device family is a reliable and accurate spot check oximeter for continuous short term monitoring and spotcheck analysis.

The VM-2160-L ist well suited for all standard applications where alarms or data storage are not required or neccessary. The application area regarding patient groups ranges from adults to neonates.



VM-2160 OLED Display



VM-2160 in Protective Cover



Standard Finger Sensor for the VM-2160-L

Key features of the VM-2160 Hand Held Pulse Oximeter

- Self-explanatory and ergonomic functions enable intuitive operation
- The colour information display, as well as the simple information structure, support quick decisions and a rapid user reaction in critical situations
- Intelligent linking of visual and acoustic information and signals
- The pulse tone rate provides information about the level of oxygen saturation
- Automatic suppression of ambient light influences
- Signal quality indications
- Simple handling and clear error messages effectively prevent incorrect operation of the VM-2160
- 20 language available for operational control
- The most modern technologies and energy-saving elements enable continued use of the device over several days
- Rapid data transfer using a standard USB interface
- Silicone protective cover included in the package
- Energy supply from standard AA alkaline batteries



Silicone Soft Sensor for VM-2160. Other types available on request.



Powerful Pulse Oximetry PC Software*

With the convenient Pulse Oximetry 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 parrallel to ongoing measurements. This function is activated by setting the real-time mode of the VM-2160. When this mode is activated, the device transfers the actual measurement values for Pulse Rate measurement values every 4 seconds to the computer via the USB interface.

* Not available with the VM-2160-L

Other Available Sensors



Adult Soft Sensor



Paediatric Soft Sensor



Finger Sensor



Silicone Wrap Sensor



Disposable Sensors



Ear Sensor



Applications

The VM-2160 with Silicone Finger Sensor is suitable for the following applications:

- Clinical Environments
- Rescue services and emergency medicine
- Sleep screening
- Home care
- Long-term monitoring
- Stress testing