

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 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 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 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

* 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.



VM-2160 Display



VM-2160 in Protective Cover

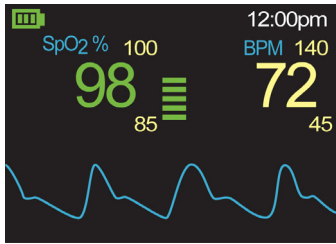
Key features of the VM-2160 Hand Held Pulse Oximeter

- 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 options 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
- Powered by standard AA alkaline batteries

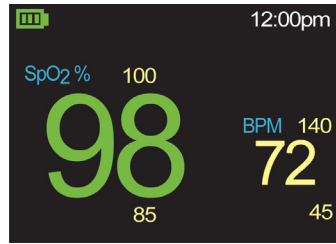


Silicone Soft Sensor for VM-2160. Other types available on request

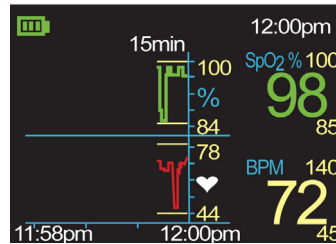
Display Formats



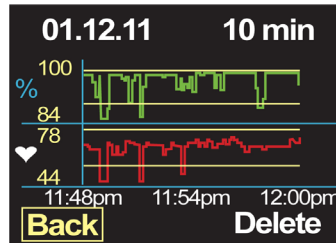
Default Display



Large Digit Display



Short Term
Trending Display

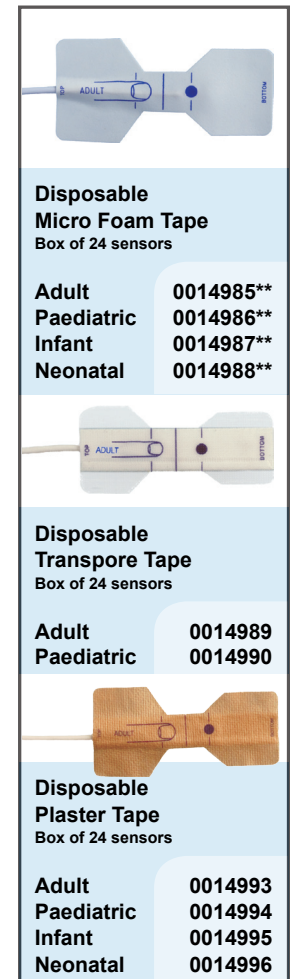
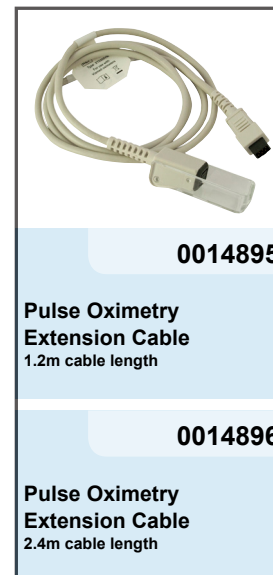
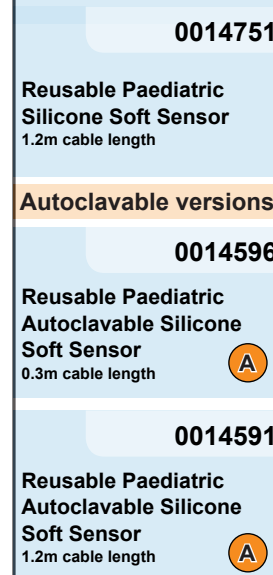
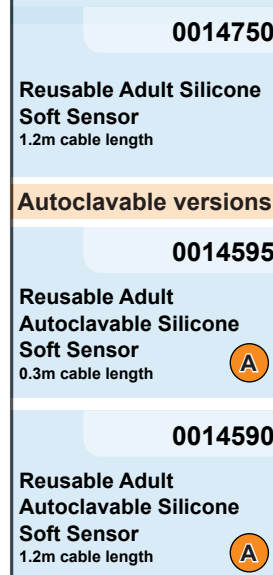
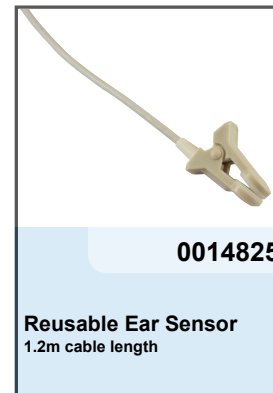


Long Term
Trending Display



Actual Size

Sensors and Cables



** Contact Viamed regarding availability

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.

Mounting Options and Accessories

For use with VM-2160

- 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

0022178



Carrying Case

0022160



Silicone Protective Cover

0022171



Universal Mounting Plate

0121180



'V' Wall Mount

0121181



'V' Mount Pole Clamp
Small: 14 - 25mm clamping width

0121182



'V' Mount Pole Clamp
Large: 16 - 40mm clamping width

0121184



'V' Mount Rail Clamp

0121200



Universal Mounting Clamp

0014890



Sensor Wraps
Pack of 12

0021013



Posey Wrap
Pack of 12 - 6554

0021018



Posey Wrap Paediatric
Pack of 12 - 6554P

N.B.: The universal mounting plate is required when using any of the mounting options shown.

Applications

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

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



Measuring RangeSpO₂
Pulse Rate0 - 100%
20 - 300 bpm**Accuracy**SpO₂ (70 - 100%)
Pulse Rate±2%
± 1 digit (≤100 bpm) ± 1% (>100 bpm)**Optical Specifications**Red emitter
Infra-red emitter660nm, typ 3.5mW
905nm, typ 3.5mW**Display**Features
Date displayed
IndicatorsColour, 65,000 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 trend15 / 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 interfaceIP32
118 mm (L) x 60 mm (W) x 25 mm (H)
Approximately 160g (including batteries, without sensor)
3 x AA alkaline batteries.
> 2 days continuous operation or approximately 5 days in economy power mode
USB 2.0

VM-2160*

EAN-13 (GTIN-13) Barcode: 5051826000007

0012160

NATO Stock Number: 6515-99-915-8170

* Language package: Central European, includes: English, Afrikaans, Dutch, French, German, Hungarian, Italian, Polish, Portuguese and Spanish.

VM-2160 - Scandinavian languages (English, Danish, Finnish, Swedish)

0012161

VM-2160 - Special EU characters languages (English, Greek, Russian, Turkish)

0012162

VM-2160 - Asia I languages (English, Chinese and Traditional Chinese)

0012163

VM-2160 - Asia II languages (English, Japanese and Korean)

0012164

Additional Accessories AvailableSensor Wraps - for use with 0014835 and 0014592 Silicone Wrap Sensors
Posey Sensor Wraps - 6554
Posey Sensor Wraps - Paediatric - 6554P
Silicone Protective Cover
Carrying Case
Universal Mounting Plate, V-adapter with female pole-mount thread (1/4 - 20)
'V' mount wall plate
'V' mount pole clamp (Small: 14 - 25mm clamping width)
'V' mount pole clamp (Large: 16 - 40mm clamping width)
'V' mount rail clamp
'V' mount pole clamp, horizontal
Universal Mounting Clamp, with vertical and horizontal adjustments0014890
0021013
0021018
0022160
0022178
0022171
0121180
0121181
0121182
0121184
0121197
0121200**Sensors and Cables**Reusable Adult Finger Sensor - 1.2m cable length
Reusable Silicone Wrap Sensor - 1.2 cable length
Reusable Autoclavable Silicone Wrap Sensor - 1.2m cable length
Reusable Adult Silicone Soft Sensor - 0.3m cable length
Reusable Adult Silicone Soft Sensor - 1.2m cable length
Reusable Adult Autoclavable Silicone Soft Sensor - 0.3m cable length
Reusable Adult Autoclavable Silicone Soft Sensor - 1.2m cable length
Reusable Paediatric Silicone Soft Sensor - 0.3m cable length
Reusable Paediatric Silicone Soft Sensor - 1.2m cable length
Reusable Paediatric Autoclavable Silicone Soft Sensor - 0.3m cable length
Reusable Paediatric Autoclavable Silicone Soft Sensor - 1.2m cable length
Reusable Ear Sensor - 1.2m cable length
Pulse Oximetry Extension Cable, 1.2m cable length (XT6500)
Pulse Oximetry Extension Cable, 2.4m cable length (XT6501)
Disposable Micro Foam Tape - Box of 24 - Adult
Disposable Micro Foam Tape - Box of 24 - Paediatric
Disposable Micro Foam Tape - Box of 24 - Infant
Disposable Micro Foam Tape - Box of 24 - Neonatal
Disposable Transpore Tape - Box of 24 - Adult
Disposable Transpore Tape - Box of 24 - Paediatric
Disposable Plaster Tape - Box of 24 - Adult
Disposable Plaster Tape - Box of 24 - Paediatric
Disposable Plaster Tape - Box of 24 - Infant
Disposable Plaster Tape - Box of 24 - Neonatal0014650
0014835
0014592
0014755
0014750
0014595
0014590
0014756
0014751
0014596
0014591
0014825
0014895
0014896
0014985
0014986
0014987
0014988
0014989
0014990
0014993
0014994
0014995
0014996

* In accordance with ISO 9919:2005 Standards.

N.B. The universal mounting plate is required when using any of the above mounting options
Specifications subject to change.



CE 0086

Distributed by:



VIAMED

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



Part Number: 0092171
Date: 04/15



ISO 13485:2003

