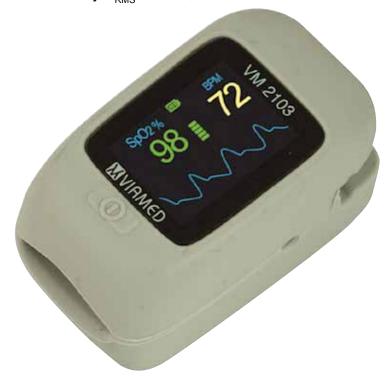# VM-2103 Finger Oximeter

Fast and accurate measurement of SpO_2 and pulse rate, even in cases of low perfusion.

- Display can be viewed in 4 rotations.
- Large and clear, usable Pleth waveform.
- Large digit display formats.
- Colour coded signal quality and signal strength indicator.
- Adjustable brightness; 6 levels.
- Designed and type tested to ISO 9919:2005.
- Clinical validation in accordance with ISO 9919:2005.
- Accuracy A_{RMS} = 2.0%, ± 1 S.D. = 1.86%

Suitable for hospital and emergency services applications

The VM-2103 is encapsulated in soft durable silicone making it both comfortable and robust. The large, colour Organic LED display offers superb visibility in all lighting conditions, including direct sunlight, and the brightness can be adjusted to suit individual applications.

This durable and compact unit utilises 16 bit processing technology enabling a fast 'true reading' response, and facilitates low perfusion capabilities.

The VM-2103 is an extremely economical piece of equipment for the spot monitoring of SpO_2 and pulse rates and can be used in a variety of environments, from use in hospitals, emergency services, clinics and dental surgeries; through to spot-monitoring before, during and after exercise.

Actual Size

VIAMED

VM-2103 Finger Pulse Oximeter

Measuring Range
SpO$_2$ 0 - 100%
Pulse Rate   20 - 300 bpm

Accuracy
SpO$_2$ (70 - 100%)   Accuracy A$_{RMS}$* = 2.0% , ± 1 S.D = 1.86%
Pulse Rate   ± 1 bpm (≤100 bpm) ± 1% (>100 bpm)

Optical Specifications
Red emitter   660 nm, typ. 3.5 mW
Infrared emitter   905 nm, typ. 3.5 mW

Display
Features   Colour OLED, adjustable brightness (6 levels), 20 x 26 mm, 262,000 colours, 128 x 96 pixels

Data displayed   Oxygen saturation, pulse rate, plethysmogram, pulse indicator, bar graph

Indicators   Pulse signal quality & signal strength, battery status
Digit height (max)   10 mm
Pleth waveform height (max)   10 mm

Environmental Conditions
Operating temperature   -20 - 60°C at 10 - 95% RH, 600 - 1300 hPa
Storage temperature   -30 - 70°C at 10 - 95% RH, 600 - 1500 hPa

Regulatory Approvals
Standards   CE Class IIa 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
Safety   Class II, Type BF

Assembly
Construction   Water ingress protection IPX2
Dimensions   62 mm (L) x 38 mm (W) x 35 mm (H)
Weight   Approximately 63 g (including batteries)
Power Supply   2 x 1.5V, AAA batteries
Battery Life   Approximately 24 hours of continuous operation

Part Number
VM-2103   0012103
EAN-13 (GTIN-13) Barcode: 5051826003206
Standard accessories included:
Lanyard
2 x AAA Batteries

Optional Accessories
Soft Carry Case, with belt loop, colour - black   0022190
Soft Carry Case, with belt loop, colour - orange   0022191
Soft Carry Case, with belt loop, colour - green   0022192

* in accordance with ISO 9919:2005 Standards.

CE 0086

Specifications Subject to Change

Pleth Waveform 1

Rotation 1

Pleth Waveform 2
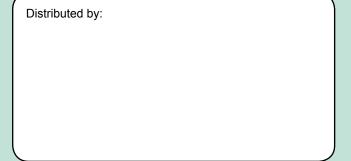
Rotation 2

Rotation 3

Rotation 4

Distributed by:

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ISO 13485:2003

Part Number: 0092168
Date: 08/14