

pulse oximetry



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 $A_{\text{RMS}} = 2.0\%$, $\pm 1 \text{ S.D.} = 1.86\%$

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% , \pm 1 S.D = 1.86%
Pulse Rate	\pm 1 bpm (\leq 100 bpm) \pm 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 - 50°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 Class II, Type BF
Safety	
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.

€ 0086

Specifications Subject to Change

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Part Number: 0092168
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ISO 13485:2003



Pleth Waveform 1



Rotation 1



Pleth Waveform 2



Rotation 2



Rotation 3



Rotation 4