pulse oximetry



VM-2103 Finger Oximeter

Fast and accurate measurement of SpO₂ 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



VM-2103 Finger Pulse Oximeter

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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) $\pm 1\%$ (>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
Digit height (max)
Pleth waveform height (max)

Pulse signal quality & signal strength, battery status
10 mm
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 - black0022190Soft Carry Case, with belt loop, colour - orange0022191Soft Carry Case, with belt loop, colour - green0022192

€ 0086 Specifications Subject to Change



Pleth Waveform 1



Rotation 1



Pleth Waveform 2



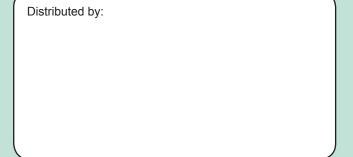
Rotation 2



Rotation 3



Rotation 4





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^{*} in accordance with ISO 9919:2005 Standards