



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

VM-2103 Finger Pulse Oximeter

Measuring Range

SpO₂ 0 - 100%
Pulse Rate 20 - 300 bpm

Accuracy

SpO₂ (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 - 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.

CE 0086

Specifications Subject to Change



Pleth Waveform 1



Rotation 1



Pleth Waveform 2



Rotation 2



Rotation 3



Rotation 4

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ISO 13485:2003