VM-*2101*
Finger Oximeter

Fast and accurate measurement of SpO$_2$ and pulse rate, even in cases of low perfusion.

- Clear and bright, colour OLED display
- Display can be viewed in 4 rotations
- Large and clear, usable Pleth waveform displayed on 2 rotations
- Large digit display formats
- Colour coded signal quality and signal strength indicator
- Adjustable brightness
- 16 bit processing facilitates low perfusion capability
- Meets ISO 9919:2005 Standards; shock, vibration, drop and water ingress tests...

The VM-2101 has a low profile design and is extremely lightweight. 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-2101 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, paramedic applications, clinics and dental surgeries; through to spot-monitoring before, during and after exercise.

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

Accuracy
SpO$_2$ (70 - 100%) — + /- 1 S.D = 2.0%
A$_{RMS}$* = <3.0%
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 mm 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 15 - 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 — 57 mm (l) x 33 mm (w) x 27 mm (h)
Weight — approx. 50 g (including batteries)
Power supply — 2 x 1.5 Volt, AAA batteries
Battery life — Approx. 24 hours of continuous operation

Part Numbers
VM-2101 — 0012101
EAN-13 (GTIN-13) barcode: 5051826002568
NATO Stock Number: 6515-99-148-5212
Standard accessories included:
Lanyard — 0022175
2 x AAA Batteries — 9950047

Optional Accessories
Hard Carry Case, with belt loop, colour - black — 0022180
Hard Carry Case, with belt loop, colour - orange — 0022181
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

Rotation 1 (Pleth waveform)

Rotation 1 (large digits)

Rotation 2 (Pleth waveform)

Rotation 2 (large digits)

Rotation 3 (large digits)

Rotation 4 (large digits)

Specification subject to change.

Distributed by:

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