

VM-2101 Finger Oximeter

Fast and accurate measurement of SpO₂ and pulse rate, even in cases of low perfusion.

- Clear and bright, colour OLED display
- Display can be viewed in 4 rotations
- Large, clear Pleth waveform is 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 SpO₂ 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

SpO₂ 0 - 100%
Pulse rate 20 - 300 bpm

Accuracy

SpO₂ (In accordance with ISO 9919:2005 Standards.) A_{RMS} = <3.0 (70 - 100%)
Pulse rate +/- 1 digit (<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

Part Numbers

VM-2101 0012101
EAN-13 (GTIN-13) barcode: 5051826002568
Standard accessories included:
Lanyard 0022175
2 x AAA Batteries 9950047

Optional Accessories

Carry Case, with belt loop, colour - black 0022180
Carry Case, with belt loop, colour - orange 0022181

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.

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BS EN ISO 9001-2000
ISO 13485-2003