

# VM-2101

## Finger Oximeter

Fast and accurate measurement of SpO<sub>2</sub> 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
- 12 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 12 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<sub>2</sub> 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.

# VM-2101 Finger Oximeter

## Measuring Range

SpO<sub>2</sub> 0 - 100%  
Pulse rate 20 - 300 bpm

## Accuracy

SpO<sub>2</sub> (In accordance with ISO 9919:2005 Standards.) A<sub>RMS</sub> = <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

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 - orange 0022191  
Soft Carry Case, with belt loop, colour - green 0022192

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  
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