

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
- 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 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.

VM-2101 Finger Oximeter

Measuring Range

SpO ₂	0 - 100%
Pulse rate	20 - 300 bpm

Accuracy

SpO ₂ (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
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Data displayed	Oxygen saturation, pulse rate, Plethysmogram, pulse indicator, bar graph
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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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ISO 13485:2003
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