## pulse oximetry



## VM-2101 Finger Oximeter

Fast and accurate measurement of SpO<sub>2</sub> 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<sub>RMS</sub> = 2.0%, ± 1 S.D. = 1.86%

High clinical accuracy and robust; ideal for hospital applications



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<sub>2</sub> 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-2101 Finger Pulse Oximeter

**Measuring Range** 

 SpO2
 0 - 100%

 Pulse Rate
 20 - 300 bpm

Accuracy

 $SpO_2(70 - 100\%)$  Accuracy  $A_{RMS}^* = 2.0\%$ ,  $\pm 1$  S.D = 1.86% Pulse Rate  $\pm 1$  bpm ( $\leq 100$  bpm)  $\pm 1\%$  (>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 - 60°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

Safety Class II, Type BF

Assembly

Construction Water ingress protection IPX2
Dimensions 57 mm (L) x 33 mm (W) x 27 mm (H)
Weight Approximately 50 g (including batteries)
Power Supply 2 x 1.5V, AAA batteries
Battery Life Approximately 24 hours of continuous operation

**Part Number** 

VM-2101 0012101

EAN-13 (GTIN-13) Barcode: 5051826002568 NATO Stock Number: 6515-99-148-5212 Standard accessories included:

Lanyard

2 x AAA Batteries

**Optional Accessories** 

Soft Carry Case, with belt loop, colour - black0022190Soft Carry Case, with belt loop, colour - orange0022191Soft Carry Case, with belt loop, colour - green0022192

€ 0086 Specifications Subject to Change



**Pleth Waveform 1** 



**Rotation 1** 



**Pleth Waveform 2** 



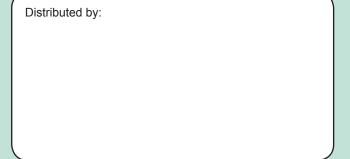
**Rotation 2** 



**Rotation 3** 



Rotation 4





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<sup>\*</sup> in accordance with ISO 9919:2005 Standards