pulse oximetry

VM-2101 Finger Oximeter

Fast and accurate measurement of SpO_2 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_{RMS} = 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_2 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

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VM-2101 Finger Pulse Oximeter

Measuring Range
SpO_2	0 - 100%
Pulse Rate	20 - 300 bpm

Accuracy
SpO_2 (70 - 100%)	Accuracy A_{RMS}* = 2.0% , ± 1 S.D = 1.86%
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 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 lla 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 - 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

Specifications Subject to Change

Pleth Waveform 1

Rotation 1

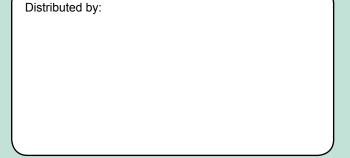**Pleth Waveform 2**

Rotation 2

Rotation 3

Rotation 4

Distributed by:

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