



## 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  $A_{RMS} = 2.0\%, \pm 1 \text{ S.D.} = 1.86\%$

**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

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

## Accuracy

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| SpO <sub>2</sub> (70 - 100%) | Accuracy A <sub>RMS</sub> * = 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),<br>20 x 26 mm, 262,000 colours, 128 x 96 pixels |
|----------|------------------------------------------------------------------------------------------------|

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Data displayed | Oxygen saturation, pulse rate,<br>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<br>BS EN 60601-1:2006, BS EN 60601-1-1:2001<br>BS EN 60601-1-2:2007, BS EN ISO 9919:2005<br>Class II, Type BF |
| Safety    |                                                                                                                                                             |

## 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.

Specifications Subject to Change



**Pleth Waveform 1**



**Rotation 1**



**Pleth Waveform 2**



**Rotation 2**



**Rotation 3**



**Rotation 4**

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