

pulse oximetry

VM-2105

Silicone Finger Oximeter

Incorporating the latest technology; a clear and bright colour OLED display encapsulated in a unique durable, soft silicone housing.

- Unique soft silicone housing for superior comfort and fit
- Robust - no hinge assembly
- 16 bit processing facilitates low perfusion capabilities
- Clear and bright, colour OLED display
- Display can be viewed in 4 rotations
- Pleth waveform, displayed in 2 formats
- Colour coded signal quality and signal strength indicator
- Adjustable brightness
- Meets ISO 9919:2005 Standards; shock, vibration, drop and water ingress tests...



The hygienic and easy to clean, soft silicone housing, of the VM-2105, offers superior comfort and fit, allowing for a more accurate and reliable reading, and with no hinge assembly to break this unit is extremely robust and able to withstand even the toughest of environments.

The VM-2105 is an extremely economical piece of equipment for the spot monitoring of SpO₂ and pulse rates. It can be used in a variety of applications, from use in hospitals, paramedic applications, clinics and dental surgeries.

Utilising 16 bit processing technology the VM-2105 gives a fast 'true reading' response, even in cases of low perfusion.

The bright Organic LED display offers superb visibility in all lighting conditions, including direct sunlight.

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VM-2105 Silicone 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 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 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 35 mm (w) x 27 mm (h)
Weight	approx. 49 g (including batteries)
Power supply	2 x 1.5 Volt, AAA batteries

Part Numbers

VM-2105 (Grey)	0012105
EAN-13 (GTIN-13) barcode: 5051826000854	
VM-2105 (Orange)	0012106
EAN-13 (GTIN-13) barcode: 5051826002605	
Standard accessories included:	0022175
Lanyard	9950047
2 x AAA Batteries	

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



VM-2105 - Grey



VM-2105 - Orange



Pleth waveform display



Large digit display

CE 0086

Specifications subject to change.

Distributed by:



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BS EN ISO 9001:2000
ISO 13485:2003