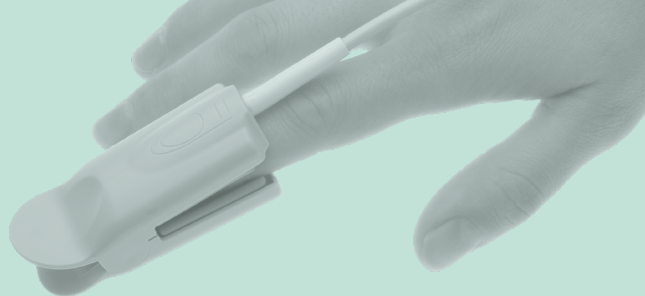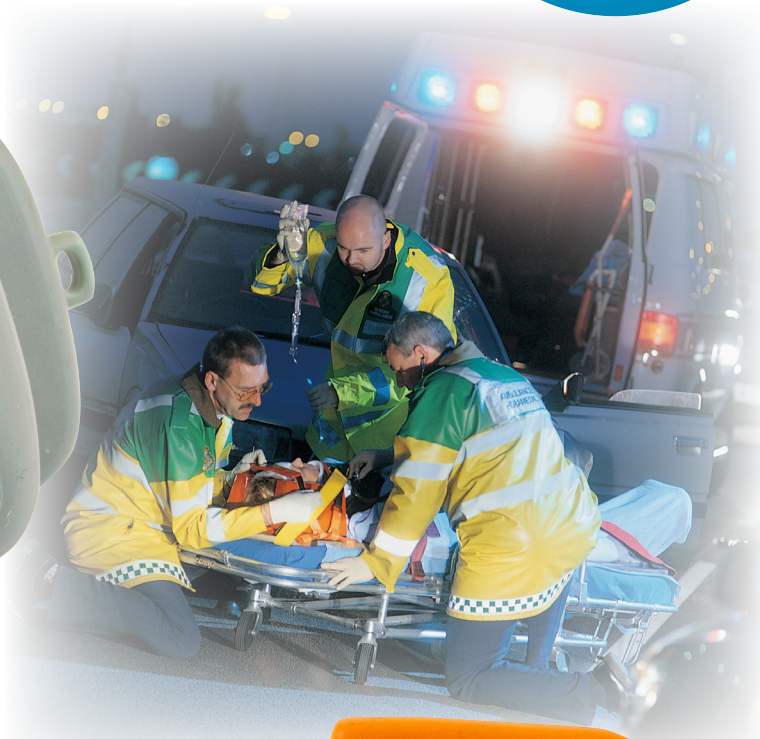# pulse oximetry

VM-2105 Silicone Finger Oximeter

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

- Display can be viewed in 4 rotations.
- Large and clear, usable Pleth waveform.
- 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} = 1.519%, ± 1 S.D. = 1.513%

Premium oximeter ideal for Emergency Services applications

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 SpO_2 and pulse rate. It can be used in a variety of applications, from use in hospitals, emergency services, clinics and dental surgeries.

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

Actual Size

VIAMED

VM-2105 Silicone Finger Pulse Oximeter

Measuring Range
SpO$_2$	0 - 100%
Pulse Rate	20 - 300 bpm

Accuracy
SpO$_2$ (70 - 100%)	Grey: 1.519 A$_{RMS}$*, ± 1 S.D = 1.513% Orange: <3.0 A$_{RMS}$*
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 - 50°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	65 mm (L) x 50 mm (W) x 34 mm (H)
Weight	Approximately 49 g (including batteries)
Power Supply	2 x 1.5V, AAA batteries
Battery Life	Approximately 24 hours of continuous operation

Part Numbers
VM-2105 (Grey) EAN-13 (GTIN-13) Barcode: 5051826000854 NATO Stock Number: 6515-99-488-8273	0012105
VM-2105 (Orange) EAN-13 (GTIN-13) Barcode: 5051826002605 NATO Stock Number: 6515-99-286-0026	0012106

Standard accessories included:
Lanyard
2 x AAA Batteries

Optional Accessories
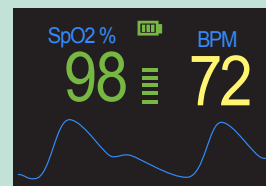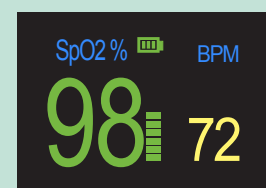|	
Soft Carry Case, with belt loop, colour - black	0022190
Soft Carry Case, with belt loop, colour - orange	0022191
Soft Carry Case, with belt loop, colour - green	0022192

* in accordance with ISO 9919:2005 Standards.

CE 0086

Specifications Subject to Change

VM-2105 Grey

VM-2105 Orange

Pleth Waveform Display

Large Digit Display

Distributed by:

M VIAMED

ISO 13485:2003

Part Number: 0092170 V4
Date: 08/14