



VG900 SpO<sub>2</sub> Sensor Test Unit.  
Version.1.0. 14/06/04  
Part no: ??????.

# VG-900 SpO<sub>2</sub> Sensor Test Unit.

## SERVICING MANUAL.



VG900 SpO<sub>2</sub> Sensor Test Unit.  
Version.1.0. 14/06/04.  
Part no.: ??????.

**CE 0086**

## **INDEX.**

<u>Section.</u>	<u>Page.</u>
1. Introduction.	2.
2.	
3.	
4.	
5.	

---

This manual is intended to provide information to help qualified maintenance personnel service and repair the VG900 SpO2 Sensor Tester. General electronic and engineering knowledge and the ability to follow technical instructions are assumed, as are knowledge of electronic diagnostics and the characteristics of operational parameters.

Diagrammatic representations of disassembly and re-assembly are shown in this Service manual.

Servicing personnel must be aware of the potential clinical implications of incorrectly serviced equipment.

## 1. Introduction.

### Service of the VG900 SpO<sub>2</sub> Probe Test Unit

The VG900 has been designed to require minimal service with very few replaceable items. The functionality should be checked at least every 12 months or if the unit has been dropped or otherwise misused.



**For use, only by qualified and trained personnel.**

**Note: The facia panel of the VG-900 is very soft – it is easily scratched!**

## 2.

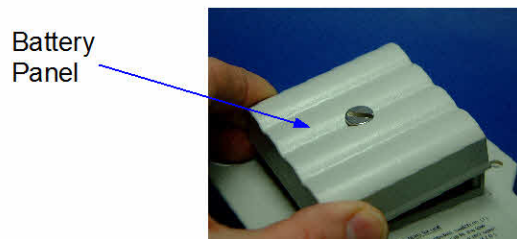
### Important:

Equipment required. 4 x 1.5V nominal, alkaline. MN1600 / AA or equivalent, (approximately 6 hours usage). Insert crimping pliers, side cutters, knife, soldering iron, cross point screwdriver, flat blade screwdriver, isopropyl alcohol, silicon polish, and tissue.

Parts list.		
Qty.	Description.	Part No.

### Servicing.

1. Remove the battery panel and fit 4 x "AA" batteries, switch on and ensure the tester shows 4 green LED's with Datascope, Nellcor and Ohmeda probes in turn. Switch off and remove batteries.



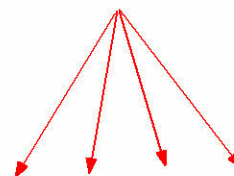
Picture No1



Picture No 2



4 Green LED's





Picture No 3

Picture No 4

2. Remove casings screws x 8 and ease off the upper case half (Fig 1.1)

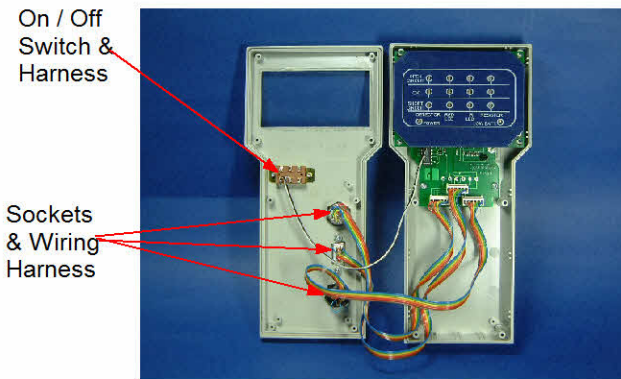


Fig 1.1

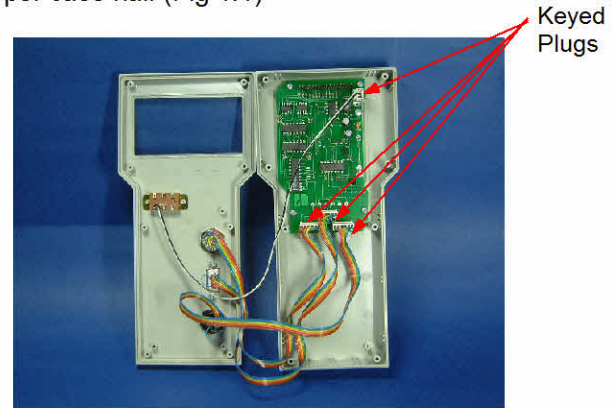


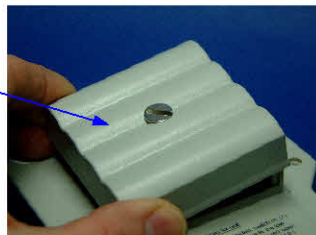
Fig 1.2

3. Disconnect the display module from the extended header and remove (Fig 1.2).
4. Disconnect 4 x keyed plugs from the main pcb (Fig 1.2)
5. Unscrew the retaining fasteners on the Datascope, Nellcor and Ohmeda socket and remove the wiring harnesses from the upper case half. The pins may need to be removed from the plug housings on the Datascope & Ohmeda wiring harnesses in order to get the retaining nut off (Fig 1.1).
6. Gently prise the facia panel off the upper case half starting at the lower right hand corner (Picture No 3 above).

### Testing:

1. Remove the battery panel and fit "4" x "AA" batteries, switch on and ensure the tester shows "4" Red LED's on the "Open Circuit" line.

Battery Panel

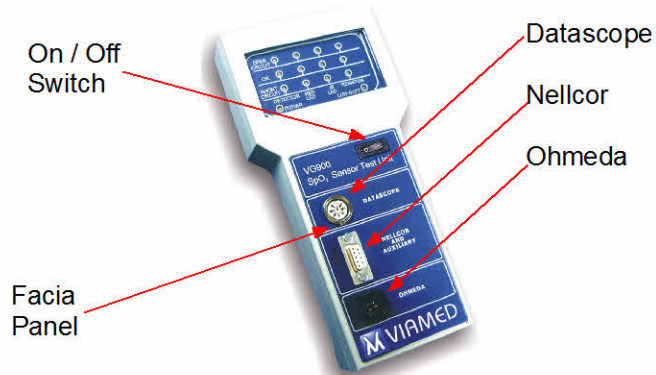


4 x "AA" Batteries



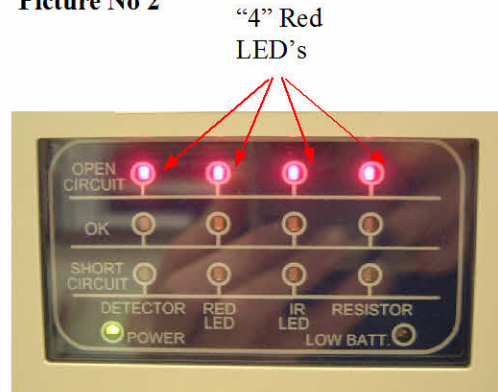


Picture No1



Picture No 3

Picture No 2

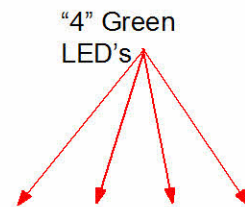


Picture No 4

- Take each of the Finger Probes in turn and insert them into the appropriate socket on the panel.



- In each case, the display window should show "4" x Green LED's.





### Cleaning Instructions

**Caution:**

**Do Not expose the connector sockets to the solution as this may cause damage**

**Do Not sterilise by irradiation , steam or ethylene oxide**

**The instrument is not intended to be sterilised.**

**Do Not autoclave the instrument**

The Instrument may be cleaned with a 70% isopropyl alcohol solution.

1. Wipe all surfaces of the instrument with a clean cloth, dampened in the isopropyl solution.
2. Wipe all surfaces of the instrument with a clean cloth dampened in sterile or distilled water.
3. Dry all the surfaces of the sensor and the cable with a dry clean cloth.
4. The VG-900 is intended to be splash proof.

### Warranty

Viamed warranty ensures that goods are free from defects of manufacture for a period of one year from the date of shipment from Viamed. Liability shall be limited solely to the replacement and repair of the goods and shall not include shipping costs or other incidental damages.

This warranty is null and void if any items are subjected to misuse, negligence, accident, or repairs other than those performed by Viamed or an authorised service centre.

### Contact Details

**Viamed Ltd.**  
15 Station Road,  
Cross Hills,  
Keighley,  
West Yorkshire,



BD2O 7DT,  
United Kingdom.

Tel: +44 (0) 1535 634542.  
Fax: +44 (0) 1535 635582.  
Email: [info@viamed.co.uk](mailto:info@viamed.co.uk).  
Website: [www.viamed.co.uk](http://www.viamed.co.uk).

This publication is protected by copyright and all rights are reserved. No part of this manual may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying and recording for any purpose other than the purchasers personal use, without the written permission of Viamed Ltd. Information within this document is subject to change. Changes will be made without notice and incorporated in further issues. All trademarks and products of manufacturers mentioned are recognised.

© Copyright 2003. Viamed Ltd.