Servomex 1800MV Marine Oxygen Analyser

Supplementary Manual

Ref: 01800/099B/2 Order as part No. 01800099B

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1800MV Installation Tips

When upgrading from another oxygen analyser to a Servomex 1800MV Marine Oxygen Analyser, modifications must be made to your calibration panel to reduce the risk of damaging the measuring cell by accidentally over-pressurising the cell or allowing moisture to enter it.

It is important to note that damaged measuring cells are not covered by the Servomex warranty. If required Servomex, or an approved agent can supply a simple calibration panel or modify your existing calibration panel for use with the 1800MV Marine Oxygen Analyser.

The following tips may assist technicians in installing and operating the Servomex 1800MV Marine Oxygen Analyser.

CAUTION

The maximum sample pressure and flow rate for the Servomex 1800MV analyser is 5 psig and 250 ml/min. If the analyser is exposed to a higher pressure or flow rate the measuring cell may be damaged and unable to function properly!

WHEN INSTALLING THE 1800MV UNIT, FOLLOW THESE PRECAUTIONS:

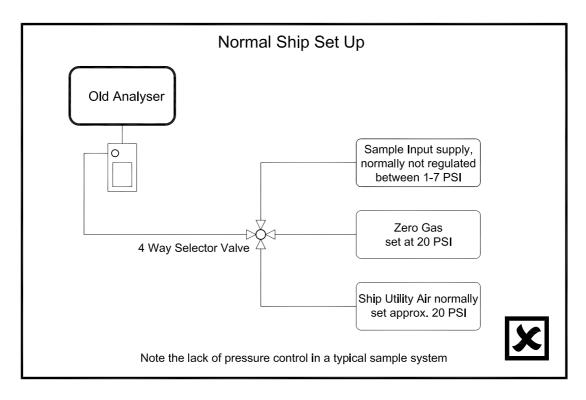
1. All gases including sample and zero and span calibration gases must be regulated to 3 psig upstream of the 1800MV analyser.

It is recommended to install an in-line pressure regulator before the wet gas bubbler to regulate the delivery of all gases to 3 psig. See diagram.

2. Without the installation of the pressure regulator, extreme care must be taken when switching from the sample to a calibration gas.

Before switching to the calibration gas, the flow controller on the wet gas bubbler must to be adjusted downward to prevent the calibration gas from being introduced at higher pressure. If the flow controller is not adjusted, the bubbler may blow moisture up into the cell resulting in cell contamination and possible irreversible cell damage. See overleaf for more details.

For further assistance and information please call your nearest Servomex office.



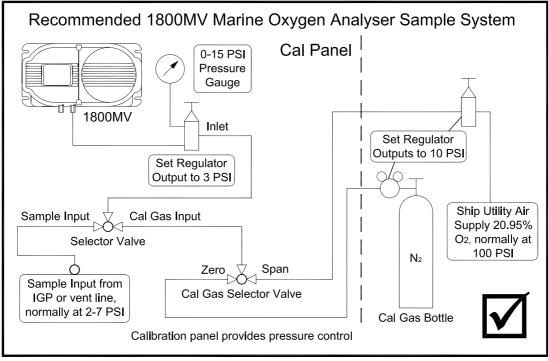


Figure 1 Installation Schematic

1800MV Start-Up and Shut-Down Procedure

The following tips may assist technicians in the start-up and shut-down of the 1800MV Marine Oxygen Analyser. These instructions are for the Servomex 1800MV complete with the wet gas bubbler unit.

1800MV MARINE OXYGEN ANALYSER SUGGESTED START-UP PROCEDURE

- 1. Check to see **ALL** gas valves to unit are closed!
- 2. Open bubbler fill opening. Fill bubbler bowl approximately 2/3rd's full with clean water. Close fill opening.
- 3. Make sure bubbler flow control valve is closed!
- 4. Apply power to analyser. Let unit warm up for at least two hours.*
- 5. Carefully open zero gas.
- 6. Set input sample / cal gas regulator to 3 PSI.
- 7. Again check to see gas regulator is set at 3 PSI!
- 8. **Slowly** open bubbler flow control valve and set a low to medium gas bubble flow in the bubbler.
- 9. Let zero gas flow for approximately five minutes
- 10. Unit is now ready for calibration. (Refer to manual)
- 11. After a successful calibration, selector valve can be put to sample.

* This is recommended to avoid problems with condensation. Note that because the measuring technology is different to electrochemical or zirconia type analysers, once switched on the unit can be left powered up without reducing cell lifetime.

1800MV MARINE OXYGEN ANALYSER SUGGESTED SHUT-DOWN PROCEDURE

As the Servomex 1800MV oxygen analyser uses a non-depleting "paramagnetic" measurement cell, it is not necessary to shut the analyser down between usage in order to preserve cell life. Leaving the unit switched on ensures it is always ready for use

- 1. Close off sample input valve to system.
- 2. Check and make sure ALL gas lines to unit are closed.
- 3. Open zero gas and set a medium flow on gas bubbler.
- 4. Close off zero gas at supply. Do not adjust bubbler flow valve.
- 5. Drain ALL water contents from bubbler bowl. Close drain outlet.
- 6. Open zero gas supply.
- 7. Let zero gas flow for approximately 5 minutes.
- 8. Close zero gas at source. Analyser reading should be at 0% depending on the concentration of the zero gas.
- 9. Remove power from unit.
- 10. Unit is now shutdown and cell is dry.

For restart, FOLLOW START UP PROCEDURES

1800MV Supplementary Notes - English

The 1800MV is a specific model of the Servomex 1800 analyser range and is intended for use in the monitoring and control of inert gas systems, inert gas generators and membrane type nitrogen generators on board ships. The unit meets the requirements set out in the International Maritime Organisation's Guide, "Inert Gas Systems, 1990", Canadian standard TP 4295 E and the Marine Equipment Directive 96/98/EC, A.1/3.30, or "Wheelmark".

The 1800MV features the Servomex magnetodynamic paramagnetic measuring cell, which unlike electrochemical or zirconia based sensors, will not deplete over time, and unlike thermomagnetic paramagnetic sensors, will not be adversely affected by changing thermal conductivities of background gases. All Servomex cells incorporate a suspension arrangement that is precisely balanced to reduce the effects of tilt, thus making them suitable for marine use. As a result, if the unit is properly cared for, operated in accordance with the manual and the cell protected from ingress of liquids, we expect that the unit will provide users with an extremely reliable and long life measurement solution.

When installing the unit in a marine environment we recommend reviewing the Marine Tips sheet attached. Attention should also be paid to the ambient temperature limits in which the unit will operate properly (-10°C to +50°C) and protecting the unit from excessive vibration.

The 1800MV features concentration and fault alarm relays and mA outputs to facilitate easy integration to most control systems. In the event that the unit is being used to replace an existing analyser that utilises a logarithmic output, Servomex can offer a linear to logarithmic output converter for the 1800MV, reducing modifications to the existing control system.

Servomex are also able to supply a bubbler flow control system that reduces the amount of sample preparation needed and the effect of flow variations on the oxygen reading reported. This unit may also be incorporated into a full panel that includes calibration connections and Servomex can provide details of this upon request.

Finally, Servomex has a global network of service centres and appointed servicing agents and distributors. Should you require assistance a list of contacts is provided on our website, www.servomex.com or our regional headquarters will be able to put you in touch with a local engineer.

Regional Headquarters:	Contact:	Telephone:
Europe Business Centre	Customer Services	+31 (0)79 330 1581
Americas (USA)	Customer Services	+1 281 295 5800
Asia-Pacific (Shanghai)	Customer Services	+86 (0)21 6489 7570



EUROPEAN COMMUNITY DECLARATION OF CONFORMITY

Issued in accordance with the MARINE EQUIPMENT DIRECTIVE (MED)

This is to certify that in compliance with the Council Directive 96/98/EC of 20 December 1996 on marine equipment, as amended by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC and 2002/84/EC of the European Parliament and of the Council:

Servomex Group Ltd Jarvis Brook, Crowborough East Sussex, England. TN6 3DU

declares that the

1800MV OXYGEN ANALYSER FOR SAFE AREAS

conforms to type as required by the above Directives as evidenced by the Conformity Route below:

EC Type Examination (Module B) Certificate No MED 0400028/M2, expiry date, 08 July 2009, issued by Notified Body EC Registration No. 0038 (Lloyd's Register) plus

EC (Module D) Certificate No MED 0750189, expiry date 17 August 2010, issued by Notified Body EC Registration No. 0038 (Lloyd's Register)

MED Annex A.1	Item No:	A.1/3.30
	Item description:	Oxygen Analysis and Gas Detection Equipment
Standards Applicable:		
EN 50104: 1999		or the detection and measurement of oxygen ements and test methods
EN 61010-1:1993		for electrical equipment for measurement, control, and 1 General requirements
EN 50081-1: 1992	Electromagnetic com	patibility – Generic emission standard ommercial and light industry
EN 50082-2: 1995	Electromagnetic com Part 2. Industrial envi	patibility – Generic Immunity standard ronment.
EN 60529: 1992	Degrees of protection	provided by enclosures (IP Code)

Dated: 24th June 2008

J. Hobby, Chief Scientific Officer

Note:- This document must be retained by the user for the life of the product.

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Figure 2 Marine Equipment Directive - Declaration of Conformity

01800MV



EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Fire protection requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC and 2002/84/EC subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer Address	Servomex Group Limited Jarvis Brook, Crowborough East Sussex, TN6 3DU			
	United Kingdom (
Annex A1 Item	OXYGEN ANALYSIS AND GAS DETECTION EQUIPMENT (A.1/3.30)			
Product Type	1800 MV			
Product Description	Oxygen analyser fo	or safe areas		
Specified Standard	EN 50104 EN 60529: 1992 - EN 60529: 1992 -	SS-4-SA-EA, EH or	EN 50081-1: 1992 ith either a blanking plu EW ith snubber type SS-4-S	5 71

The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue	15 June 2008	Expiry date 8 July 2009
Certificate No.	MED 0400028/M2	Signed M. Al Rufaie
Mark 105 Perh	25 - Mar 101	Lloyd's Register Verification
Sheet No	1 of 1	Name M.H.A. Rufaie For and on behalf of Lloyd's Register Verification LRV EC Distinguishing No. 0038

Note:

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein. vv Last two digits of year mark affixed.

This certificate is issued under the authority of the MCA.

"Lloyd's Register Verification is the business name of Lloyd's Register Verification Limited, a member of the Lloyd's Register Group. Registration number 4929226.

0038/yy

Registered office 71 Fenchurch Street, London EC3M 4BS, England

Loyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Loyd's Register Group'. The Loyd's Register Group assumes no responsibility and shall not be liable to any preson for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Loyd's Register Group entity for the provision of this information or advice in this clause any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Figure 3 Lloyds Register Verification Certificate



71 Fenchurch Street, London, EC3M 4BS Telephone 020 7423 2940 Fax 020 7397 4246 Email dcg-stat@lr.org

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Document number MED 0400028/M2	
Issue number	-

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DESIGN APPRAISAL DOCUMENT

Date 15 June 2008 Quote this reference on all future communications LDSS/PAS/TAE/W01495156/MHR/O- 91929

ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 0400028/M2

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

ADDITIONAL APPROVAL DOCUMENTATION Request form	28.04.2008
ervomex letter	09.02.2007
ervomex letter	28.04.2008
ection 3 Appendix B (Technical Drawings)	Undated
ocument No. 01800-P-014-5	09.02.2007
ection 2 Appendix A (Installation and Operator Manual, Part No. 01800/003B/2, issue 2)	Undated
upplementary Manual No. 01800/099B/1	Undated
ection 10 Appendix J (Servomex Technical Data Sheets - 1800)	Undated
ection 7 Appendix F (Servomex Change Note Procedure)	28.04.2004
ection 12 Appendix L (Manufacturer's Declarations)	Undated
ervomex 1800MV (technical Construction File) No. 01800-P-014-6	28.03.2008
Data <u>Sheets</u> 1800 MV) No. PB01800, Rev. 5 (02/07 E)	02.2007
Artesyn NFS40 Series (Power Supply) No. NFS40.PDF Rev. 19	19.11.2001
Drawings	
Jo. 01158/851/1 (issue 1)	29.09.1999
Jo. 01158/101/4 (issue 4)	13.07.2007
Jo. 01800/111A/2 (issue 2)	16.03.2006
Jo. 01800/111A/2 (issue 2)	16.05.2006
Jo. 01800/124/1 (issue 1)	12.02.2007
Jo. 01800/124/2 (issue 2)	28.04.2008
Jo. 01800/911/1 (issue 1)	12.07.2002
Vo. 01800/911/1 (Issue 1)	18.04.2006
Jo. 01800/911A/4 (issue 4)	12.07.200
Jo. 01800/911C/2 (issue 2)	28.11.200
Jo. 01800/915C/2 (issue 2)	16.05.200
Vo. 01800/913D/4 (2 sheets, issue 4)	29.11.200
Vo. 01800/993B/2 (issue 2)	30.02.200
Vo. 01800/999C/1 (2 sheets, issue 1)	16.05.2003
TEST REPORTS	
3SI Certificate No. Q05166	22.11.200
Servomex MED Declaration	28.02.200
Also all the documentation listed on Design Appraisal Documents associated with MED Cert	ificates 0400028
MED 0400028/M1.	

FORM 6438 (04/96) *Lloyd's Register Verification is the business name of Lloyd's Register Verification Limited, a member of Lloyd's Register Group. Registration number 4929226.



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DESIGN APPRAISAL DOCUMENT

Date 15 June 2008 Quote this reference on all future communications LDSS/PAS/TAE/W01495156/MHR/O- 91929

CONDITIONS OF CERTIFICATION

- Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E), a Product Verification Process (Module F) or Unit Verification (Module G). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
- Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.

PLACE OF PRODUCTION

Servomex Group Limited Jarvis Brook, Crowborough East Sussex, TN6 3DU United Kingdom (UK)

For and on behalf of Lloyd's Register Verification

M. Al Ruf Lloyd's Regis

M.H.A. RUFAIE Lead Specialist Product Approval / London Design Support Services Tel: +44 (0) 20 7423 1849 (*Direct line*) Email:<u>product-approval@lr.org</u> Web: www.lr.org

FORM 6438 (04/96) "Lloyd's Register Verification is the business name of Lloyd's Register Verification Limited, a member of Lloyd's Register Group. Registration number 4929226.

Producer	Product and Type	Details of Approval	Specified Standard	Remarks	Cert. No.
Servanex Group Limited, Jarvis Brook, Crowborough, Las Sussex, TN6 3DU, United Kingdom (UK).	1800 MV	Orygen analyser for safe areas	EN 80104 EN 6101-0.1 1993 EN 8003-1.1 1992 EN 80052-2 1995 EN 60525-2 1995 JP 66 when fitted with either a blanking plog or a muldber type 554-56-42. Eff a trift EN 60525-1992 JP 66 when fitted with snubber type 554-66-4E.	Expires: 08 July 2009	MED 0400028/M2



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Document number MED 0400028/M1	
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DESIGN APPRAISAL DOCUMENT

Date
25 March 2006

Quote this reference on all future communications LPA/ECE/TA/W00997446/MHR/O- 69550

ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 0400028/M1

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

ADDITIONAL APPROVAL DOCUMENTATION	
Request form	12.12.2005
Servomex letter	12.12.2005
Servomex letter	01.12.2005
Servomex letter	01.08.2005
Servomex letter	29.12.2005
Servomex letter	15.11.2004
Technical Construction Files	
1800 MV (Marine Variant) No. 01800-P-014-2 (issue 2)	11.08.2005
1800 MV (Marine Variant) No. 01800-P-014-3 (issue 3)	01.08.2005
1800 MV (Marine Variant) No. 01800-P-014-4 (issue 4)	09.12.2005
Data Sheets	
No. TDS1800MV (Rev. 5)	04.2005
Drawings	
No. 01800/263/0	02.08.2004
No. 01158/000/6 (4 sheets) Rev. 6	22.04.2005
No. 01800/113C/1 (Rev. 1)	28.07.2005
No. 01800/913C/1 (Rev. 1)	25.07.2005
No. 01800/993B/1 (Rev. 1)	13.10.2005
TEST REPORTS	
BSI Certificate No. Q05166	22.11.2002
Also all the documentation listed on Design Appraisal Document associated with M	IED Certificate No. MED 0400028
CONDITIONS	
 Production items of the subject equipment are to be manufactured in accord Quality Assurance system (Module D), a Product-Quality assurance syste 	
Process (Module F). The wheelmark cannot be affixed to the product until a c 2. Each item, batch or lot of the equipment is to be issued with a "Declaratio	
Conformity" affixed after a conformity assessment module is in place.	in or contorning which have the traine of
PLACE OF PRODUCTION	
Servomex Group Limited, Crowborough, East Sussex, TN6 3DU, United F	Kingdom (UK)
For and on behalf of Lloyd's Register Verification	
M. Al Rufane	
M.H.A. RUFAIE	

M.H.A. RUFAIE Senior Electrical Engineer Electrical and Control Engineering/Type Approval London Plan Approval / Lloyd's Register EMEA Tel. +44 (0) 20 7423 1849 Direct line

FORM 6438 (0496) "Lloyd's Register Verification is the business name of Lloyd's Register Verification Limited, a member of Lloyd's Register Group. Registration number 4929226.

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Part 13 Subject: Fire protection Product: OXYGEN ANALYSIS AND GAS DETECTION EQUIPMENT (A.1/3.30)

Producer	Product and Type	Details of Approval	Specified Standard	Remarks	Cert. No.
Servomex Group Limited, Crowborough, East Susser, Tr& 5DU, United Kingdom (UK).	1800 MV	Oxygen analyser for safe areas	EN 50104 EN 50104-1: 1993 EN 50051-1: 1992 EN 50052: 1992 - 1P 66 when fitted with either a bashing plug or a snubber type: SS4-5K-EA, EH or EW EN 60539: 1992 - 1P 65 when fitted with snubber type SS4-5K-EL	Expires: 08 July 2009	MED 0400028/M



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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 0400028

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

APPROVAL DOCUMENTATION 19.02.2004 Request form 02.2004 Servomex letter Servomex 1800 MV (Marine Variant) document No. 01800-P-014-1 (Technical Construction File) 18.05.2004 Table of Contents 18.05.2004 Section 2 (Appendix A) 'Quick -Start' - Installation and Operation manual (issue 2) Undated Section 3 (Appendix B) Technical Drawings Undated Section 4 (Appendix C) Power supply data Undated Section 5 (Appendix D) Type Test report to EN 50104 Undated Section 6 (Appendix E) EMC Certificates and Test Reports Undated Section 7 (Appendix F) Change Note Procedure (Servomex Standard) Undated Section 8 (Appendix G) Product Change Notes since KEMA type testing Undated Section 9 (Appendix H) Type test Report and Certificates - safety Undated Section 10 (Appendix J) Servomex Technical Data Sheets Undated Section 11 (Appendix K) Quality Management System Undated Section 12 (Appendix L) Manufacturer's Declaration Undated Servomex brochure (Ts Rev. 2) 11.2002 Data Sheets ARTESYN (NFS25 Series) No. NFS25.PDF Rev. 01 01.2000 Chang Notes (Product) EQT02 (8 pages) 30.12.2003 1800 Marine Oxygen Analyser (TD Swgb Rev. 1) 10.2002 1800 Marine Oxygen Analyser (TDS 1800 Rev. 2) 04.2003 Servomex Marine Gas Analyser Technology Note 1: Inert Gas Production (MGA/1 Rev. 0) 06.2003 Servomex Measurement of Oxygen in Gas Mixtures (TN01 Rev. 1) 02.2002 Drawings 01158/000/5 (Rev. 5) 5 sheets 01.05.2003 01158/101/3 (Rev. 3) 28.07.2003 08.08.2000 01800/102A/2 (Rev. 2) 01800/111/0 (Rev. 0) 20.09.1996 01800/113C/0 (Rev. 0) 02.05.2000 01800/124/0 (Rev. 0) 05.05.2004 01800/902A/3 (Rev. 3) 26.07.2002 01800/911/0 (Rev. 0) 16.09.1996 01800/913C/0 (Rev. 0) 02.05.2000 01800/992A/2 (Rev. 2) 26.07.2000 FORM 6438 (04/96) "Lloyd's Register Verification is the business name of Lloyd's Register Verification Limited, a member of Lloyd's Register Group. Registration number 4929226.

THIS DOCUMENT IS SUBJECT TO THE PROVISIONS ON THE REVERSE



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T	Document number
1	MED 0400028

Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 9 July 2004

Quote this reference on all future communications DAPP/ECE/TA/W00511313/MHR/O-48782

01800/993B/0 (Rev. 0)	21.03.2000
01800/999C/0 (Rev. 0) 2 sheets	
01800/994D/0 (Rev. 0) 2 sheets	21.03.2000
(1000/994D/0 (Rev. 0))	17.04.2001
TEST REPORTS	
Test Specification (No. 01800/001S/0)	07.03.2000
KEMA 50050760-KPS/TCM 00-2143 Rev. 1	26.04.2004
KEMA Certificate of Compliance No. KPS 01-355 (Revision 1)	26.04.2004
KEMA Certificate of Compliance No. KPS 01-356 (Revision 1)	26.04.2004
ERA Certificate of Compliance No. 5044-96-293	24.05.1996
ERA Certificate of Compliance No. 5044-96-294	24.05.1996
ERA Certificate of Compliance No. 5046/C446A	03.04.1996
ERA Certificate of Compliance No. 5046/C446B	03.04.1996
ERA Certificate of Compliance No. 4146/871/8124	07.06.1996
KEMA (Annex B) Operating Instructions Xendos Model 1800	
ERA No. 5044/11L3/1	26.04.2004
ERA No. 3044/1113/1 ERA No. 4473/1M3/1	05.1996
ERA No. 96-0554	02.1998
ERA No. 96-0555	06.1996
	06.1996
BSI Certificate No. Q05166	17.09.1986
BSI Certificate No. Q05166	22.11.2002
Servomex EC Declaration of Conformity Generic Emission and Immunity	09.05.2000
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Production items of the subject equipment are to be manufactured in accordance Quality Assurance system (Module D). The wheelmark cannot be affixed to the assessment module is in place. PLACE OF PRODUCTION Servomex Group Limited Crowborough, East Sussex, TN6 3DU United Kingdom (UK) M.H.A. Rufaie Senior Electrical Engineer For and on behalf of Lloyd's Register Verification	e with an approved Production he product until a conformity

Servomex Group Limited, Crowborough, East Sussex, TN6 3DU, United Kingdom (UK).	1800 MV	Oxygen analyser for safe areas	EN 50104 EN 61016-1: 1993 EN 50081-1: 1992 EN 50082-2: 1995 EN 60529-1P 66 when fitted with either a blanking plag or a smabber type: S5-4-54-2, EH or EW	Expires: 08 July 2009	MED 0400028
			EN 60529 - IP 65 when fitted with snubber type SS-4-SA-EL	-A LILL MAR	

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