

Chapter 1 : DrÄrger Oxylog® plus

Page 1. Instructions for Use Oxylog plus Emergency and Transport Ventilator WARNING To properly use this medical device, Software 1.n read and comply with these Instructions for Use.

The proper servicing and testing of this device requires a full understanding of this Technical Documentation. Carefully read this Technical Documentation and any applicable Instructions for Use prior to any use of the device. This page has been intentionally left blank. Abbreviations This chapter contains a list of the abbreviations used in this manual. EL display Electroluminescence display. Read each step in every procedure thoroughly before beginning any test. Always use the proper tools and specified test equipment. Otherwise the correct functioning of the device may be compromised. NOTE Unless otherwise stated, reference is made to laws, regulations or standards as amended applicable in the Federal Republic of Germany for equipment used or serviced in Germany. Users or technicians in all other countries must verify compliance with local laws or applicable international standards. NOTE If the test values are not met, please contact your local service organization. This Technical Documentation is for informational purposes only. Product information contained in this Technical Documentation does not supersede Product information provided in the Instructions for Use enclosed with the product at the time of delivery. These maintenance procedures do not replace inspections and servicing by the manufacturer. For use by and under supervision of trained health care professionals. The connection block supplies a constant pressure to the metering block, contains the safety functions such as the emergency air and safety valves, control the pressure PEEP during expiration and, together with the ventilation accessories, provides the interface to the patient. The metering block passes defined volumes of gas of approx. The control and display electronics evaluate the measurement signals, control the valves and provide the interface to the operator. Oxylog plus Function description 3 Pneumatic assembly The following description relates to the pneumatics diagram of the Oxylog plus. The Control PCB evaluates the measurement signals of the sensors and actuates the valves. The pressure regulator regulates the pressure to 3 bar. This is done to attain a stable flow control. The flow sensor S1 measures the delivered flow and the Control PCB corrects the valve operation as necessary. With the valve V1 and the ejector E1 ambient air can additionally be drawn in. Valve V1 meters a flow through the ejector. The resultant negative pressure draws ambient air through the filter F2, the flow sensor S2 and the non-return valve V9. The non-return valve V9 prevents oxygen escaping into the ambient air. L1 prevents swirling, and ensures a uniform oxygen concentration. The emergency breathing valve NV allows the patient to breathe spontaneously in case the unit fails. The pressure sensor S4 measures the internal patient pressure inside the unit and the PEEP pressure at the ventilation valve V The pressure sensor S6 measures the differential pressure above the flow sensor S8 located close to the patient Fig. From it, the Control PCB calculates the flow. Valves V7 and V8 switch the connections of S6, S5 against atmosphere at cyclic intervals. The Control PCB calibrates the sensors and any offset drift is prevented. The Control PCB actuates a coil which delivers a pressure to a diaphragm. The internal tubing system vents to this pre-set PEEP pressure during expiration. On expiration the pre-set PEEP pressure is established at the patient. Oxylog plus Function description Fig. Sensors S7 and S9 measure the ambient pressure. S5 measures the current pressure level in the lung. The connections of the individual modules are only indicated indirectly, and are made by cable harnesses, connectors and the conductors on the individual PCBs. The input is isolated from the remaining electronics by a protective circuit. The internal replaceable battery has various dummy resistors, depending on the type used. The Charging Circuit PCB detects on the basis of the resistor which type is fitted nickel metal hydride or lithium ion. The temperature and charge capacity of the internal replaceable battery is determined by the battery itself. The LEDs are located on the front membrane cover. The Sensor PCB is the interface for pressure measurement and valve actuation between the pneumatic and electronic systems. Together with the display, the rotary knob and the potentiometers, the front membrane cover is the interface between the unit and the operator. The display is an EL display. EL stands for electroluminescent. If the device is ON and the power fails, an alarm generator generates an audible alarm signal. A Goldcap capacitor delivers the voltage for the signal. The voltage

generator generates the various operating voltages from the supply voltage. The real-time clock generates the time and date. The microprocessor system evaluates the measurement signals from the sensors, the settings of the potentiometers and the rotary knob and operates the valves and the display accordingly. On a change of software the unit no longer needs to be opened. Maintenance Procedures This chapter describes the measures required to maintain the specified condition of the device. Slacken the screw Fig. Fold the cover Fig. Pull the replaceable battery Fig. Press the button on the new replaceable battery and check the charge. The LEDs on the replaceable battery indicate the charge condition in percent. Charge the replaceable battery as necessary. NOTE The replaceable battery can be charged by the battery charger station or by the external power supply in the Oxylog plus. Fit the replaceable battery. Switch on the Oxylog plus and check the battery capacity indicated on the display. Oxylog plus 2 Replacing the filter element Maintenance procedures 1. Switch off the device. Remove the filter element. Install the new filter element. Carry out a unit test. Schematics and Diagrams This chapter contains schematics and diagrams that can be of help when servicing the device. These schematics and diagrams are partly used as reference to the function description. Item Oxylog plus Item Schematics and diagrams Designation 14 DC voltage socket 15 Sockets for flowmeter tubes, ventilation tube and compressed gas tube 16 Base plate Fig. Item Oxylog plus Oxylog plus Fig. Test instructions This chapter contains the measures required to determine the actual condition of the device. Parts catalog Oxylog plus Revision: Items that are shown in the illustration but are not listed below the illustration are not available as spare parts Revision: Description Items that are shown in the illustration but are not listed below the illustration are not available as spare parts Revision: Test instructions TL Oxylog plus NOTE The procedures described in this Test List can be carried out using commercially available test equipment and tools; however, this Test List does not replace inspections and maintenance by the manufacturer. Software version Oxylog plus 6 of 20 - Oxylog plus Revision 1. Test Result The value of the protective earth conductor resistance must not exceed 0. Protective earth conductor resistance 8 of 20 - Oxylog plus Revision 1. Condition and function checked. Test Result The unit test runs without error. The pre-set and displayed values are identical. The charge indicator LED is lit red. An audible alarm sounds. The charge indicator LED is lit green. The audible alarm is deactivated. The unit continues ventilating. An acoustic alarm sounds for at least 7 seconds. Test Result Ventilation is resumed with the previous settings. Test Ventilation through the emergency air valve is possible. Action Test Copyright reserved. To quit service mode switch off the unit. The values set in Customer Service Mode are retained and reactivated every time ventilation is started following powerup. Test Report TL Institution: Test has been performed according to the test instructions TL.

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Chapter 3 : Draeger Oxylog plus Manuals

The Oxylog plus uses the same reusable and disposable hoses like Oxylog and Oxylog plus. This increases your efficiency and saves you valuable storage space and training time. Intuitive user interface.

Chapter 4 : Oxylog Plus " free downloadable ventilator setting guides | ED Procedures

Instructions for Use Oxylog plus SW 1.n 3 Safety Information Definitions Definition of target groups For this medical device, users, service personnel, and experts are defined as target groups.

Chapter 5 : DRAGER OXYLOG PLUS MANUAL

George Douros has prepared these excellent, free, downloadable pdf charts that show you how to set up and run the Draeger Oxylog Plus ventilator, with tables showing all of the main settings for lung protective and obstructive ventilations strategies, adjustments for different underlying medical problems and simple but lifesaving tips on how to troubleshoot the ventilator in case of the.

Chapter 6 : DRAGER OXYLOG® PLUS - Draeger - PDF Catalogue | Technical Documentation

Draeger user interface and family platform - The Oxylog plus uses the same intuitive user interface common to most

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Dräger products. The select-adjust-confirm operating system speeds the user familiarization process.

Chapter 7 : Oxylog® plus Product Trainer

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Chapter 8 : DRÄGER OXYLOG PLUS INSTRUCTIONS FOR USE MANUAL Pdf Download.

BTPS 6 Revision _Printed calendrierdelascience.com 1 Oxylog plus General This chapter contains general notes and definitions that are important for the use of this manual. 7 General 1 Symbols and Definitions Oxylog plus WARNING A WARNING statement provides important information about a potentially hazardous situation.

Chapter 9 : Frank's Ventilators

MEDICAL D Instructions for Use Software 1.n Oxylog Emergency and transport ventilator MT This "Instructions for Use" manual is published for public use and is only meant for your information.