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Ohmeda medical biliblanket meter ii manual

Intensity, Neoblu, Mini, Manual, Phototherapy, Inches, Natus, Output, Radiant, Enclosure, Clinical, Engineering, Clinicalengineering.duhs.duke.edu User Manual - Clinical Engineering Ohmeda Medical8880 Gorman RoadLaurel MD 20723USA410-381-2555North AmericaUnited StatesCustomer Service andDistribution CenterDatex-Ohmeda, Inc.Ohmeda DrivePO Box 7550Madison, WI 53707-7550Tel 1 800 345 2700Fax 1 608 221 4384Technical SupportDatex-Ohmeda, Inc.Three Highwood DriveTewksbury, MA 01876Tel 1 800 345 2755Sales and ServiceDatex-Ohmeda, Inc.Three Highwood DriveTewksbury, MA 01876Tel 1 800 635 6099Fax 1 978 640 0469Equipment Service CenterDatex-Ohmeda, Inc.1315 West Century DriveLouisville, CO 80027-9560Tel 1 800 345 2755CanadaDynamed Health Care Systems235 Shields CourtMarkham, Ontario L3R 8V2CanadaToll Free 800 227 7215Tel 905 752 3300Fax 905 752 3304Asia/PacificJapanDatex-Ohmeda K. K.TRC Annex 9F6-1-1 HeiwajimaOhta-ku, Tokyo 143-0006JapanTel 81 3 5763 6801Fax 81 3 5763 6838Datex-Ohmeda K. 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Ltd.Block EP & GP, Sector VPlot XI-16, Salt LakeCalcutta 700091IndiaTel 91 33 3574002Fax 91 33 3574001EuropeFranceDatex-Ohmeda S.A.S.17 rue Jean-Elysée DupuyF-69410 Champagne Au Mont d'OrFranceTel 33 01 30 68 60 00Fax 33 04 78 43 26 58GermanyDatex-Ohmeda GmbHDr-Alfred-Herrhausen-Allee 24D-47228GermanyTel 49 2065 691 0Fax 49 2065 691 236ItalyDatex-Ohmeda S.p.A.Via Cassanese, 10020090 Segrate, MilanItalyTel 39 2 21693431Fax 39 2 26926226NetherlandsDatex-Ohmeda B.V.Kantemarsweg 18Post Box 223870 CA HoevelakenNetherlandsTel 31 33 253 5404Fax 31 33 253 7223BiliBlanket® Meter IIOperation andMaintenance ManualSpainDatex-Ohmeda S.L.C/Manuel Tovar 2628034 MadridSpainTel 34 1 334 26 00Fax 34 1 358 12 84United KingdomDatex-Ohmeda Ltd.Ohmeda House71 Great North RoadHatfield HertfordshireAL9 5EN EnglandTel 44 1707 263570Fax 44 1707 260191Latin America, CaribbeanDatex-Ohmeda Latin America10685 North Kendall DriveMiami, FL 33176USATel 1 305 273 9940Fax 1 305 273 4382Middle EastDatex-OhmedaMiddle East OperationsP O Box 5527DubaiUnited Arab EmiratesTel 97 14 822653Fax 97 14 8226596600 0350 00004 00 0 13 10 06Printed in the USA© Ohmeda MedicalBiliBlanket™MeterIIuser ResponsibilityWarrantyThis product will perform in accordance with the description of this manual and accompanying labels and/or inserts, when assembled, operated, maintained and repaired in accordance with the instructions provided. 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The manufacturer's radiometers have different spectral windows, so they differ from different spectral irradiation values for the same light source, even when their window differences are small. Relative Spectral Response Normalized Spectral Response of Ohmeda BiliBlanket Meter400410420430440450460470480490500510520Wavelength (nm)CI. 09.009Active wavelength meter for Bilirubin serumFigure 1-1Spectral response court Ohmeda BiliBlanket counter (6600-0198-900) comes with a cap receiver, a transport belt, an O&M manual, a BiliBlanket Plus template, and a transport bag. Batteries are included. Spare parts: Tower accessory adapter (reverses the receiver head 180°) 6600-0270-800 Receiver and string cover 6600-0530-200 Transport bag 6600-0531-200Mplates for BiliBlanket 6600-0383-700Template for BiliBlanket Plus & High Output 6600-0500-70016600-0350-000 04-0011/General informationCots and operating indicators1. Display window Displays spectral irradiation data.2.The light receiver cupCovers photocell.3.Receptor headrelease buttonWhen depressed, allow removal button of the receiver's head.4.Hold-Running switchPressing switch to positions its inward chosen Hold function (J), freezing the display reading at the last level of irradiationreception. Pressing again releases the press button in its up-rolling position (j), display of irradiancemeasurements.5.On-Off switchTorns radiator on and off.6.Battery coverRemove by dragging the cover down asyndicated by the arrow on CapProtects head receiver. Attach as shown in Figure 1-2.CI.09.01672Ohmeda Medical154000101CI.09.017CI.09.018MADE IN JAPANDistributed by: Ohmeda MedicalColumbia, MD USAProduced by:Minolta Co., Ltd Japan3BiliBlanket™Me4terwCAUTION: Refers to OperationManualBATTERY: 1.5V x 2xxx .50mAAC ADAPTOR 9Vxxx .50mAMADE IN JAPANI5540001016Figure 1 -2Ohmeda BiliBlanket Meter26600-0350-000 04-0022/OperationCheckout procedure before operationPerform the following checkout procedure each time Ohmeda BiliBlanketMeter is put into operation.1. Verify that the radiometer is not exceeded for calibration. Calibration is required annually from the date of purchase.2. Clean the dome of the receptors with lens tissue or with a soft, dry cloth.3. Set the Suspend/Run switch to Run position (j).4. Check that the batteries are installed with the appropriate polarity.wCAUTION: Improper installation of the battery will cause the appliance to malfunction.5. Set the On/Off switch to The On position.6. Zero adjustment is performed automatically when the switch is set to I (ON).• CAL will be displayed during zero adjustment.•Zero adjustment is performed electronically, so zero adjustment is not required•When zero adjustment is complete, the CAL message will disappear.wCAUTION: Do not subject the radiometer to shocks or vibrations, especially when adjusting the zero level. Inaccurate readings may result.7. Install new batteries if one of the following occurs:• The display window is empty or• A battery mark will appear above the measured value. If you continue to use the tool, the bookmark will start blinking and the measurement will not be longer. Note: The use of fresh alkaline batteries allows continuous measurement for approximately 72 hours or more at normal temperatures.100.CI.09.019µm•cm-2nm-1Figure 2-1Battery Alarm36600-0350-000 04-0032/OperationOperation procedure with BiliBlanket®, BiliBlanket Plus, and BiliBlanket High Output Phototherapy System1. Make sure that the checkout procedure for Ohmeda BiliBlanket has been completed.2. Make sure that the checkout procedure for the Ohmeda BiliBlanket Counter has been completed.1.Output Media= (A+B+C+D+E+E)62.AEDFigure 2-2Use the ACEBDCI.09.01145*3.3 template. Position the BiliBlanket buffer on a flat surface with the light-emitted side up.4. Turn on the BiliBlanket illuminator and let it heat up for about 15 minutes.5. Install the template on the light holder, as shown in Figure 2-2, step 1, making sure that the media slips all the way into the template.6. Using the brightness selector switch on the Illuminator front panel, select the high light intensity setting.7. Start BiliBlanket Meter.8. Set the Suspend/Run switch to Run position (j). The radiometer now performs continuous irradiation measurements.9. Using the template, place the dome of the radiometer receiver contact with the surface of the illuminator buffer, as shown in Figure 2-2, step 2.10.After a few seconds, press the Hold/Run switch press button to set it on hold (J) (J) This freezes the reading of the display at the level of currentspectral irradiation received from the pad. The radiometer can now be motioned. Measured spectral irradiation data is displayed in the display window. Repeat the measurement for the five locations, as shown in Figure 2-2, step 3. To get the mean irradiation value, add the five readings together (A+B+C+D+E) and the central reading again (E), and then divide the amount by six [(A+B+C+D+E+E)/6].11. Turn off the BiliBlanket lighting power.12. Turn off the power of the radiometer if no additional measurements are made.46600-0350-000 04-0042/Operation70Meter Reading605040302010Units @ 120V ~ Units @ 220V ~ Units @ 230V ~ Units @ 240V ~ Units @ 100V ~ 100191200209831052012102198711102102202309111522023024020230240250991252392502611031302492602711107Measured line voltageFigure 2-3Meter Read vs.

Voltage Line13. For BiliBlanket systems, use a needle voltmeter to measure the line voltage of the container to which BiliBlanket will be connected (BiliBlanket Plus and BiliBlanket Plus High Output systems are equipped with an internal voltage regulator that renders the voltage of the measuring line unnecessary). Use the diagram in Figure 2-3 to determine whether BiliBlanket emits the correct light output. Draw a vertical line from the line voltage axis, starting from the voltage of the line measured to the power container in step 3 (as shown in the graph, the values on the line voltage axis vary depending on the nominal voltage of The BiliBlanket). Then draw a horizontal line from the measurement axis, starting from the spectral irradiation value obtained. If the two lines intersect in the shaded area of the chart, then BiliBlanket has the correct irradiation output. Note: If you cannot determine or measure line voltage, readings between 18 and 63 are taken into account in the specification. Note: For BiliBlanket Plus systems, meter readings must be between 26.25 and 43.75 μW/cm2/nm. For BiliBlanket Plus high output systems, meter readings shall be between 34.75 and 56.25 μW/cm2/nm. Important: Ohmeda Medical BiliBlanket Light Meter is calibrated with a traceable tungsten lamp source. This calibration ensures the accuracy of the meter with that lamp standard. When other types of light sources are measured, the meter may not accurately measure the specified spectrality as it is not calibrated for the spectral distribution of the lamp concerned. See manufacturer's recommendations on measurement technique and light meter specifications.56600-0350-000 04-0054/TroubleshootingTable 4-1 Symptom Troubleshooting Guide:Possible Cause:Recommended Action:Radiometerprovides noreadoutwhowhen operated. Batteries are deficient. Replace the batteries. The photocell is defective. Return the radiometer for repair and calibration. Batteries installed correctly, the batteries are installed. Batteries are Replace the batteries. The battery radio meter above the measured value. Error messagesAn error may occur during operation due to problems. If an error occurs, error, table below and take the necessary measures. Message: Description: Recommended action: Error of communication ErrInitialNire response from the receiver's head during initial communicationCheck the connection. If the tool is connected correctly, contact the nearest authorized service unit. Error ErrEEPROMError with EEPROM data (at the receiver's head)Remove the batteries (or AC adapter), and then reinstall them. If this message reappears, contact the largest authorized service unit. Error in communication of errC (main receiver head)Communication between the main body and the receiver's head was not performed properly. Check the connection. If the tool is properly connected, contact the nearest authorized service facility.86600-0350-000 04-0085/Task bookNote: All specifications are nominal and may be modified without prior notice. Spectral response: Range: 400 to 520 nm. Central wavelength: 450 nm. Bandwidth: 60 nm. Acceptance of Scottish lightfeatures:± 2% at 30° angle;± 7% at 60° angle;± 25% at 80° angle. Receiver type: Silicon photocell. Display type: Liquid crystal display. Measuring functions:Spectral irradiation:μW/cm2/nm. Measuring range: spectral irradiation: 0,1 ~ 299,9 μW/cm2/nm. Within ±3% of fullscale ±1 digits in the last position. Accuracy:Temperature range:Operation:–10 to 40°C{14 to 104°F)Physical:Dimensions:174 x 69 x 35 mmWeight (nominal):180 gwithout battery. Internal battery: Two 1.5 volts, alkaline. Battery life:Approximately 72 hours.*Power source:*If the radiometer should not be used for two or more weeks, it is recommended that the batteries be removed.†Storming the radiometer at temperatures outside this temperature range may affect the performance and damage the unit.106600-0350-000 04-0010/Use LiabilityWarrantyThis product will perform in accordance with its description contained in this manual and accompanying labels and/or inserts, when assembled, operated, maintained and repaired in accordance with the instructions provided. This product should be checked periodically. A defective product should not be used. Broken, missing, simply worn, distorted or contaminated parts should be replaced immediately. If repair or replacement becomes necessary, Ohmeda Medical recommends that atelephone or written request for service advice be made at the nearest Ohmeda Medical Services Center. 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