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Dp Operators Manual

Please upgrade your browser or activate Google Chrome Frame to improve your experience. Increasingly, DP capability is found on dredgers, cruise ships, superyachts and vessels involved in renewable energy projects. It is a practical guide for serving and trainee DPOs and trainers, so concentrates on operational functions, setting up and testing equipment, bridge management and communications. If you continue without changing your settings, we will assume you are happy to receive all cookies from our website. However, if you would like to change how cookies are used, you can change your browsers cookie settings at any time to delete or prevent cookies from this website being used. Discover everything Scribd has to offer, including books and audiobooks from major publishers. Start Free Trial Cancel anytime. Report this Document Download Now Save Save DP Operations Manual For Later 100% 13 100% found this document useful 13 votes 2K views 201 pages DP Operations Manual Uploaded by Adrianzzzz Description Full description Save Save DP Operations Manual For Later 100% 100% found this document useful, Mark this document as useful 0% 0% found this document not useful, Mark this document as not useful Embed Share Print Download Now Jump to Page You are on page 1 of 201 Search inside document Browse Books Site Directory Site Language English Change Language English Change Language. Pay now with address and payment details stored in your Amazon account. Increasingly, DP capability is found on dredgers, cruise ships, superyachts and vessels involved in renewable energy projects. It is a practical guide for serving and trainee DPOs and trainers, so concentrates on operational functions, setting up and testing equipment, bridge management and communications. To view more information about our cookie use, click here to view our Privacy Policy. It does not replace specific manuals and company instructions but it does provide a summary of good practice.<http://m-isc.com/userfiles/compaq-3950-manual.xml>

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Increasingly, DP capability is found on dredgers, cruise ships, superyachts and vessels involved in renewable energy projects. It is a practical guide for serving and trainee DPOs and trainers, so concentrates on operational functions, setting up and testing equipment, bridge management and communications. Dont worry, we dont spam. Inevitably, a work of this type is a digest of existing knowledge, experience and previously published material. Thanks are particularly due to my longtime colleague at Lowestoft College in the UK, Richard Lodge, whose help and support have been invaluable, both in the compilation of this book and in the running of training within the DP unit. For information supplied over the years, I am indebted to the various manufacturers of DP and peripheral systems, in particular Kongsberg Maritime, Converteam, Neutronix, Sonardyne, Guidance Limited and MDL. Thanks to the following for supplying illustrations Heerema Marine Contractors, R Clarke, Teekay Shipping and Gary Ritchie FNI. I must also thank Julian Parker at The Nautical Institute, not only for the opportunity of compiling this volume, but for all the help and encouragement over more than 20 years in the business of DP training, accreditation and competence. Foreword Foreword Dynamic Positioning as a working system was introduced in the 1970s. As its potential was realised, DP systems were applied to ever more critical operations involving divers and drilling. The UK Department of Energy and the Norwegian Maritime Directorate specified the need for training;The Nautical Institute assessed training needs and established a training programme. Captain David Bray from Lowestoft with Jim Simpson from

Aberdeen in the UK and Rune Mellum in Kongsberg, Norway, played a leading role in converting the training specification into simulator courses that became the international standard. As the range of DP applications becomes ever more specialised, so the training must meet these specialist needs. <http://itemweb4.fr/userfiles/compaq-6000-laptop-manual.xml>

Captain Bray recognised the need for a multidisciplinary committee to examine DP specialisation and it is pleasing to see the progress being made as DP matures into a new phase. Currently there are some 55 DP training centres worldwide; The Nautical Institute has issued over 1,200 DP certificates a year since 2005, and numbers continue to increase. Captain Bray has devoted countless hours to the development of effective training methods which he has generously shared with colleagues. He has accredited numerous DP centres and contributed to the DP Training Forum. I would like to acknowledge his dedication and outstanding professional commitment. In our discussions over the years we concluded that, with so many applications, it might be useful to provide a handbook for DP operators DPOs to aid easy transfer from one ship to another which could serve as a handy reference book to be used as a refresher, a source of good management and operational practices and a guide for organising onboard training particularly for the benefit of understudies. For example, communications has prominence in a number of sections and it is a maxim of all cooperative operational systems to keep lines of communication open at all times, always seek to explain intentions to those who need to know. By keeping lines of communication open and being open to the comments of people engaged in the operation, most problems will be overcome. Captain Bray has now retired. On behalf of everybody he has helped and trained over the past 20 years and for the wisdom of this handbook, he deserves our special appreciation and thanks.

Julian Parker Contents Contents Chapter 1 Introduction to dynamic positioning. 1 Chapter 2 Dynamic positioning principles and systems. 3 Chapter 3 Redundancy and equipment class. 21 Chapter 4 DP vessel operations. 31 Chapter 5 Operational planning and watchkeeping. 47 Chapter 6 Position referencing. 57 Chapter 7 Propulsion and thrusters. 87 Chapter 8 Power plant.

93 Chapter 9 Operator training and human factors. 98 Appendix 1 Guidance to Masters of DP vessels in assessing the competency of DPO candidates. 107 Appendix 2 References page. 109 Appendix 3 Glossary of Terms and List of Abbreviations. 111 Index.117. Increasingly, DP capability is found on dredgers, cruise ships, superyachts and vessels involved in renewable energy projects. The handbook is the flagship text for the DP Training Scheme administered by The Nautical Institute and provides an indispensable reference for all seafarers who need to understand and use this sophisticated technology. It is a practical guide for serving and trainee DPOs and trainers, so concentrates on operational functions, setting up and testing equipment, bridge management and communications. By using our services, you agree to our use of cookies. Page 1. Operator's GuideDisk contains. Radascan Operators Manual. Page 2Page 1. All Rights Reserved. Copyright in the whole and every part of this document belongs to Guidance. Navigation Limited the "Owner" and may not be used, sold, transferred, Windows is a trademark of Microsoft Corporation. All other brand or product names are trademarks or registered trademarks of RadaScan is not currently approved for import to the United States. Release 1.0b. Document No 9400214. Previous issue No previous issue. Guidance Navigation Limited Meridian Business Park. Leicester LE19 1RP. England. Design RadaScan. Operator 1Page 2. Contents. Introduction. Entering service access mode. Serial numbers and software versions. To obtain and use a temporary service access mode.....21. Specifications. Using the system. Suspend, exit or reset communications.....5. DP feed format and message string.....17. RadaScan. Operator 2Page 3. Welcome to the RadaScan position reference sensor for dynamic positioning RadaScan is a high accuracy radarComponents Principles of Operation.

<https://congviendis.vn/vi/digidoor-24-instruction-manual>

The RadaScan sensor emits a low power radar beam. The beam is received The sensor uses the

reflection to accurately calculate the distance range and This positional data is automatically The transponder reflection is retroreflective in A scanning transceiver unit with integral power The Sensor is connected A system control and display application running This allows full control of Ethernet link connects the Sensor to A passive self contained battery RadaScan unit. RadaScan transponders. RadaScan equipped vessel. Operator 3 Page 4. Component Part Numbers and individual Serial Number are assigned to each Software version information. The Configuration page tab within the property sheet provides version Software component RadaScan. Operator 4 Page 5. Using the System. Radascan User Console provides an intuitive environment that allows you to This section provides Start up. To enter RadaScan User Console RadaScan. Console After a brief initialisation period Suspend, exit or reset communications. RadaScan User Console offers you two options for shutting down or These options are This mode is suitable for use when travelling between To suspend or exit A dialog box will be displayed Select the required RadaScan. Operator 5 Page 6. Screen layout. Positional data display. The RadaScan User Console screen has five key areas. Navigation section. This section provides Sensor display. A large circular area, rather Button bar. A collection of nine buttons The pages that follow Property pages. Provides detailed Status bar. Provides important feedback information on various topics and RadaScan. Operator 6 Page 7. Sensor display. Reflections and targets. Reflections from targets are shown as yellow squares on the seascape. The When navigating a coloured box is This circular area is a seascape and shows the relationship between the. RadaScan vessel and the targets. There are a number of key elements within RadaScan vessel. The RadaScan vessel image is shown, as determined by the setting in the.

Display options, either as an outline or a solid filled shape, with a distinct bow Depending upon the chosen display option, the centre of the Sensor display Range circles. A series of radiating labelled concentric circles provide a visual indication of the Use the Zoom in and Zoom out Target reference frame. Indicates the AB axis that the RadaScan system uses to define the positions of. Operator 7 Page 8. Button bar. A collection of nine buttons that provide, or control, a range of functions. When Stop navigation. Click to cease Zoom out. Increases the Display See below. Sensor Click to select Cancel. Click to discard Display options. Click to view a list of options that determine the elements within the sensor Start navigation. Click to begin a sequence RadaScan system After selecting this button, Zoom in. Decreases the Alarms. Becomes available Apply. Click to accept RadaScan. Operator 8 Page 9. The upper right of the screen provides positional information whenever Positional display. Information. Quality Indicator. DP Feed mode. Positional Display. A number of different DP message types are available for configuration during The DP message type defines the positional In most formats the Range a Bearing to the primary target from the vessel is Heading is only available when a NMEA message format When a NMEA format is used to navigate in Single target navigation the Range The option is selected by unticking the. When a NMEA format is used to navigate with multiple targets the Range and. Bearing values can be converted and displayed as the vessel position in relation Configuration property page. Information Quality Indicator. A graphical 9 bar display gives a quick indication of the confidence that the The more bars that The bars and numerical values are also Navigation modes. You can choose from two main modes of navigation. Single target navigation. Single target is the simplest type of navigation as it only requires a single target It is quick and easy to use Multitarget navigation.

The use of multiple targets gives certain advantages over single target The advantages are as follows. Operator 9 Page 10. Navigation single target. Navigation multitarget. To start single target navigation. To start multitarget navigation The Multitarget navigation option only becomes available when Radascan After a short delay, the navigation data will be determined and displayed. Note that only Range and Bearing or Bow and Starboard values will be. RadaScan will automatically identify the available targets and after a short To end multitarget navigation To end single target navigation The readouts in the navigation section will become inactive and turn grey. The viewed

targets will remain shown on the sensor display. The readouts in the navigation section will become inactive and turn grey. The RadaScan. Information quality indicator. When beginning either single or multitarget navigation, the readouts in the RadaScan system will improve upon its positional information and as quality. Additionally, the information quality indicator bar graph will show more. Operator 10 Page 11. Status bar. Provides important feedback information on various topics and displays the. A green icon indicates that. Status bar buttons. To the left of the status bar are two buttons. Click this button to view the Control dialog. From here you can. Help. Click this button to view the online RadaScan User Console operators guide. RadaScan. Operator 11 Page 12. Property pages. This area of the User Console screen provides detailed operational and setup. Alarms This page alerts the operator to any situation which may impact the. Reflections This page gives details of the reflections which are being. Configuration This page gives access to operational parameters including. About This page gives Service Access to the setup parameter for the system. The software version of the User Console, a copyright statement and Guidance. Navigation contact details are also shown.

For more information on these pages please refer to the detailed sections. RadaScan. Operator 12 Page 13. Alarms property page. During operation, the RadaScan system produces an event audit trail in the. These range in. To assist with quick recognition of the various alarm types, a colour coding. Grey. Orange. Red. As an alarm condition occurs, its entry is appended by a Start. When the condition is resolved, the entry is appended. The Pause symbol. The Alarms page offers two key features to assist in the display of applicable. Using the alarm filter. This allows you to choose which types of alarms of the four categories to. As standard the filter is activated with only the. To use the alarms filter. Alarms page Lists any messages received from the various component units. These are classified into four types of alarm which are, The arrow symbol indicates the Start. A filter is available to. As standard, the filter. Information messages. Deleting alarms from. Historic list. Deleting. RadaScan. Operator 13 Page 14. Using the historic alarm list. The Alarms page has two alarms lists. The Current list is where new alarm. Historic list. To clear the historic list. To accept alarms in the current list. Items in the Current list cannot be deleted, they may only be moved to the. Historic list. Once there, however, they may be erased. You can confirm each deletion individually, or click the Yes to All button. To export an alarms list. Note If you attempt to transfer any alarms that are still unresolved, a warning. RadaScan. Operator 14 Page 15. Reflection Property page. This area of the RadaScan User Console screen provides detailed information. The property sheet uses tabbed pages to. Reflections page Provides a numeric list of the reflections received during the. This page can be used to verify the. As a new revolution is started, the list is cleared and starts again. For each. For changes up. RadaScan. Operator 15 Page 16. Configuration property page.

The Configuration page provides a mixture of RadaScan sensor data for. This option. The DP message string. To provide maximum visibility during daytime operation and minimal glare. View and Night View. To change the view mode. RadaScan. Operator 16 Page 17. This option controls the format in which the positional information is packaged. The DP Feed Format may only be changed. Any changes to this setting MUST be carried. The choice of DP Feed Format. The default display mode for. Single Target is to present the. Starboard axes with origin at. The DP Message string field displays the current text being sent to the DP. To change the DP feed format. Note Changes in formats, other than between NMEA and ASCII, can only be. Ensure that the DP system is correctly prepared to receive the new message. RadaScan. Bearing option on the. Configuration page, the. Note Selecting either option. Operator 17 Page 18. About Property page. Indicates the software version and copyright details. It also allows you to invoke. RadaScan. Operator 18 Page 19. Using the onscreen keyboard. In order to accommodate keyboardless computers, RadaScan Console provides. This icon is found within the property sheet area on the following pages. Alarms. Multitarget groups and certain Configuration pages when in service access. Note As standard, the onscreen keyboard feature is disabled as most. Please refer to. When displayed the onscreen keyboard appears as a floating window as. To use

the onscreen keyboardTo enable the onscreen keyboard feature. Note This procedure can only be carried out when using Service Access mode,RadaScan. Operator 19Page 20. Using log files. Whenever RadaScan is navigating it generates a comprehensive set ofWhen in service access mode, the system logs can be collected manually,Note For details about temporarily switching into service access mode, pleaseTo locate and send a log fileThe name of the folder will include the start and finishNavigation Ltd where the captured data can be interpreted.

Note To compress the whole folder prior to transmission by email, you canSuch compressed folders can be alsoRadaScan. Operator 20Page 21. There are many settings within RadaScan Console that can seriously affectFor this reason they areIMPORTANT Indiscriminate adjustment of parameter settings can adverselyIt is not advisable to edit the settings unlessService access mode can be entered by plugging an engineer USB key into anyTo obtain and use a temporary service access codeA dialog will be displayed and will show a Service request code. Note The service request code is constructed as two groups of six capital. There are never any numerals in a serviceA corresponding Service access code will be supplied to you. This code isService access code dialog showing the request code andRadaScan. Operator 21Page 22. The Configuration page. In service access mode, the Configuration page of the property sheet providesAdditionally, use the Select Configuration Category control to select the. See Using the onscreen keyboard for details. Operator 22Page 23. Sensor. Environmental. Emitter type. FMCW operating in the 9.29.3GHz maritimeOperating rangeRange accuracyAngular repeatability. RotationBeam shapeCloserange elevation angle. Temperature controlOperating temperature. Water and dust protection. StandardMechanical. EnclosureDimensionsWeightMountingTarget. TypeEnvironmental use. ATEX certified. Azimuth responsePDF Version 1.4. Linearized No. Create Date 20061120 142755Z. Modify Date 20061120 134219Z. Page Count 26. Creation Date 20061120 142755Z. Mod Date 20061120 134219Z. Producer Acrobat Distiller 5.0.5 for Macintosh. Author Marc. Metadata Date 20061120 134219Z. Creator Marc. Title Radascan Operators Manual.

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