

DMP MONITORING & CONTROL SYSTEM 1.0





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1.0 USING THE SEARAY NAVPANEL

The Sea Ray NavPanel acts as your onboard computer's "desktop." The NavPanel provides access to all of Sea Ray Navigator's features and information, and also provides options for configuring how Sea Ray Navigator looks and operates. The following is a brief guide for using the NavPanel.





These six windows are actually buttons, serving as links to the different components of the Sea Ray Navigation System. Press any button for access to the related information or application.

NavBar

<u>Start</u>	Sea Ray Navigato	Contour	Sea Ray 680SS	Weather	Video	Help

The NavBar is modeled after the familiar Windows Start bar. Its Start menu contains all the options you will need to configure the NavPanel to your liking.

The NavBar also includes six other buttons, corresponding to the larger button links in the center of your desktop. These NavBar buttons ensure that you will have access to all of Sea Ray Navigator's features, even when the desktop is hidden from view.

Moving ("Docking") the NavBar

When you first start using Sea Ray Navigator, the NavBar is located at the top of your screen. If you like, you can move it to any other side of your screen: touch the gray area outside the buttons, and drag towards another edge. As you move, an outline will appear on your screen, indicating the NavBar's new location. Lift your finger and the NavBar will appear in its new location.

Hiding the NavBar from View



If you like, you can temporarily hide the NavBar from view. This maximizes the space available for showing other data (charts, weather, etc.). Choose **Options** from the Start menu, and check **Autohide NavBar**. The NavBar will disappear from view. When you need access to the NavBar, simply touch the part of the screen where the NavBar was, and it will reappear.

To undo the autohide, choose **Start, Options** and select **NavBar always on top**. This will keep the NavBar on top of any other windows, so it will always be visible.

The Start Menu

Se	a Ray Navigator
Co	ntour
Se	a Ray 680SS
W	eather
Vie	leo
Ηe	lp

The first six items in the Start menu correspond to the six main components of the Sea Ray Navigator navigation system. These menu items match the buttons on the NavBar and the six large buttons on the Sea Ray Navigator desktop.



Options: Lets you temporarily hide the NavBar from view (Autohide), or ensure that it is always visible (Always on Top).

Shut Down: Shuts down Sea Ray Navigator and turns off the computer.



<u>Setup</u>: The Setup submenu provides configuration options. Access to these options requires administrator login.

Set Shell: The Default Windows Shell determines whether the computer opens to the Sea Ray Navigator interface and desktop, or to Microsoft Windows Explorer (Windows desktop and Start bar). Your choice will take effect the next time you turn on your computer. (When Microsoft Windows Explorer is the default shell, you will be able to start Sea Ray Navigator as you would any other program, by choosing it from the Start/Programs list or by clicking its desktop shortcut.)

Upgrade: Applies any available Sea Ray Navigator upgrades.

Ports: Lets you specify the COM ports being used for GPS signal and Autopilot signal. **Run:** Lets you run Windows Explorer, or use Windows Hyperterminal to check connection status at specific COM ports.

Exit: Closes Sea Ray Navigator.

Login: Administrator login and password is required here for access to these Setup options.

About NavPanel: Gives the Sea Ray Navigator Nav Panel version number.

1.1 USING MONITORING & CONTROL SYSTEM SOFTWARE

Step 1. Computer 1

From the Searay NavPanel click on the (Searay 680 SS) DMP Monitoring & Control System button.

This will start the Monitoring & Control program :





Computer 1

Step 2. Computer 2.

When the Main Menu of the Monitoring & Control System of *Computer 1* appear, (or vice versa, (redundant)) then start the Monitoring & Control System Program on *Computer 2.*

The Monitoring & Control System Program will start on Computer 2. The Main Menu of the Monitoring System of Computer 2 appears. After a few seconds the Computer will *Connect* to the Server Computer1:



At the top of the left side of the screen the following field appears: *Client*.

8-31-2000 S	EA RAY 680	SS 11:40.40 L 1991111
ANTENINET	SHEEK CORMEN	ALMANICS
And Children	HATERTON P	INTERCOMPANY
COLUMN TWO IS NOT	THE READER OF	Contract Statistics
LINERATOR	and story	DE MONTONNE
10.642	An old Pressent	ad broke receipt
BEEN DATE	MY1007	AL A DESCRIPTION
رينعي	ar oc	CONTRACT OF
	-	

 Image: State Stat

Server Computer 1

Client Computer 2

* **Do not start both Monitoring & Control System Software at the same time.** Wait until one Monitoring System software is started up and then start the other Monitoring System software.

* What to do if **both** Monitoring & Control Systems Software are servers or **both** Monitoring & Control Systems Software are clients ?

Quit both Monitoring & Control Programs and follow step 1 and 2 again. (See 1.1)





The unit should be left on continuously with the exception of the Lcd Touchscreens for reliability and smooth operation of the Searay 680 Monitoring & Control Software.

Turning off the unit (computers or junctionboxes) will cause serious problems: No Alarm and no Trending !

2.0 MAIN MENU

From the Searay NavPanel click on the DMP Monitoring System button. The Main Menu of the Monitoring System appears:



Main Menu Monitoring System

From the Main Menu any one of the screens of information's can be selected. The operator simply needs to touch the block labeled with the information wishes to view.

As indicated these are for the Searay 680 SS Monitoring System:

- MAIN ENGINES
- PORT ENGINE
- STBD ENGINE
- GENERATORS
- TANKS
- NMEA DATA
- SWITCH CONTROL I
- SWITCH CONTROL II
- FIRE ALARMS
- SECURITY
- BILGE PUMPS
- NAV LIGHTS
- ALARM LOG
- HISTORICAL TREND
- ABOUT SYSTEM
- DC MONITORING
- AC SHORE POWER
- AC II SHIPS POWER *

2.1 MAIN ENGINES

Touch from the *Main Menu* the block labeled **Main Engines**. The Main Engines screen appears :

Main Engines

The Main Engines screen shows the most important information from two main engines:

Port & Stbd Engine

- ✓ RPM
- ✓ Engine Oil Pressure
- ✓ Engine Coolant Temperature
- ✓ Gear Oil Temperature
- ✓ Gear Oil Pressure
- ✓ Engine Hours
- ✓ Engine Room Temperature
- ✓ Rudder Angle Indicator
- ✓ Exhaust High Temp

Click on this button *Menu* to go back to the Main Menu of the Monitoring System.

Click on this button Next Page to select one page forward.

Click on this button *Previous Page* to select one page backward.

Click on this button *Alarm Page* to select the Alarm Logging page.

2.2 PORT ENGINE

Touch from the *Main Menu* the block labeled **Port Engine**. The Port Engine screen appears :

Port Engine

The following parameters displayed for the Port Engine Page :

Port Engine

- ✓ RPM
- ✓ Engine Hours
- ✓ Engine Oil Pressure
- ✓ Engine Coolant Temp
- ✓ Gearbox Oil Pressure
- ✓ Gearbox Oil Temperature
- ✓ Engine Load
- ✓ Fuel Consumption
- ✓ High Exhaust Temp Indicator
- ✓ Change Fuel Filter Indicator
- ✓ Water in Fuel Filter Indicator

Click on this button Next Page to select one page forward.

2.3 STBD ENGINE

The next screen Stbd Engine appears :

Stbd Engine

The Stbd Engine screen shows the following information:

Stbd Engine

- ✓ RPM
- ✓ Engine Hours
- ✓ Engine Oil Pressure
- ✓ Engine Coolant Temp
- ✓ Gearbox Oil Pressure
- ✓ Gearbox Oil Temperature
- ✓ Engine Load
- ✓ Fuel Consumption
- ✓ High Exhaust Temp Indicator
- ✓ Change Fuel Filter Indicator
- ✓ Water in Fuel Filter Indicator

2.4 GENERATOR

Touch from the *Main Menu* the block labeled **Generator**. The Generator System screen appears :

Generator Screen

The Generator screen shows the following information:

Generator

- ✓ Generator Oil Pressure
- ✓ Generator Coolant Temperature
- ✓ Generator Running Hours
- ✓ Generator Voltage
- ✓ Generator Frequency
- ✓ Generator Current L1-L2
- ✓ Generator Power
- ✓ Generator Water in Fuel Filter Indicator
- ✓ Generator Change Fuel Filter Indicator

2.5 TANKS

Touch from the *Main Menu* the block labeled **Tanks**. The Tanks screen appears :

12 - 12 - 2000	ALARMLOG	TANKS		15 : 14 : 37
	FUEL TARK	FRESH WATER	BLACK WATER	ORAY WATER
	100	100	100	100
	90	90	90	90
	80	80	80	80
	70	70	70 -	70
	60	60	60	60
	50	50	50	50
	40	40	40 -	40
	30	30	30	30
	20	20	20 -	20
	10	10	10	10
	0 🛃	0	o 🛄	0
	79 GALL	DNS 100	32 GALLO	INS 0
		MENU	2 🕑	

Tanks Screen

The Tanks screen shows the following information:

Tanks

- ✓ Fuel Day Tank
- ✓ Fresh Water Tank
- ✓ Black Water Tank
- ✓ Gray Water Tank *

High / Low Alarm Tanks

Use the Operation Tool (as shown in the following illustration), as the slider to change alarm values.

You can drag the slider to a new position to change a high or a low Alarm.

Click on this button *Main Menu* to go back to the Main Menu.

* Optional

MENU

2.6 NMEA DATA

Touch from the *Main Menu* the block labeled **Nmea Data**. The Nmea Data screen appears :

12 - 12 - 2000 ALARM	1005 NMEA DATA	15 : 16 : 35
WATER DEPTH	POSITION 150° 45' 842 N 50° 45' 842 W	WATER TEMP
VESSEL SPEED	RUDDER ANGLE INDICATOR 57 °	OUTSIDE TEMP

Nmea Data Screen

The Nmea Data screen shows the following information (See Section 4.5 'NMEA Data Protocol' for more NMEA Data information):

Nmea Data

- ✓ Rudder Angle Indicator
- ✓ Ships Position (GPS)
- ✓ Outside Temperature
- ✓ Water Temperature
- ✓ Speed
- ✓ Water Depth

MENU

2.7 SWITCH CONTROL I

Touch from the *Main Menu* the block labeled **Switch Control I.** The Switch Control I screen appears :

12-12-2000	ALARM LOG	VITCH CONTROL I	15 : 18 : 36
BILG	E PUMPS	NAV LIGHTS	LIGHTING
	OFF I ENCINE ROUM ROW ROW ROW ROW ROW	RUN. LIGHT RUN. LIGHT ANCHOR L.	OFF NIGHT LIGHT OFF SPOT LIGHT
J			
ENG BLOWERS	ELECTRONICS	WINDSHIELD W	IPERS
ENG BLOWERS			
ENG BLOWERS		WINDSHIELD W	IPERS OFF INTERVAL I I I I I TED 75% 50% 25% I FAST WASH

Switch Control Screen I

The following parameters displayed for the Switch Control Page I:

Switch Control

- ✓ Bilge Pumps
- ✓ Navigation Lights
- ✓ Ships Lighting
- ✓ Engine Room Blowers
- ✓ Electronics
- ✓ Windshield Wipers

Click on this button *Main Engines* to go to the Main Engines Page.

2.8 SWITCH CONTROL II

Touch from the *Main Menu* the block labeled **Switch Control II.** The Switch Control II screen appears :

Switch Control Screen II

This Switch Control II Screen shows the following information:

Switch Control

- ✓ Main Solenoid Control Bow Thruster
 - Swim Platform
 - Windlass
- ✓ Waste Discharge Pump
- ✓ Spares 24V Accessory #1-3 - 12V Accessory #1-3
- ✓ Antennae Port & Stbd Antennae

Click on this button *Main Engines* to go to the Main Engines Page.

Click on this button *Main Menu* to go back to the Main Menu.

SWITCH CONTROL II

2.9 FIRE ALARMS

Touch from the *Main Menu* the block labeled **Fire Alarms**. The Fire Alarm System screen appears :

Fire Alarm Screen

The Fire Alarm Screen shows the following information:

Fire Alarms

- ✓ Upper Salon Smoke
- ✓ Utility / Crew's Quarters Smoke
- ✓ Extinguisher Discharge Alarm
- ✓ Port Guest Stateroom Smoke
- ✓ Stbd Guest Stateroom Smoke
- ✓ Lower Salon Smoke
- ✓ Master Stateroom Smoke
- ✓ Lower Salon Smoke
- ✓ Engine Room Heat

2.10 SECURITY

Touch from the *Main Menu* the block labeled **Security.** The Security Alarm System screen appears :

Security System Screen

The Security Alarm System Screen shows the following information:

Security System

- ✓ Cabin Door
- ✓ Engine Room Hatch
- ✓ Utility / Crew's Hatch
- ✓ Sunroof
- ✓ Port Side Window
- ✓ Stbd Side Window
- ✓ Fwd Hatch

ALARMS DISABLED

Click on this button to *Enable / Disable* the *Security Alarm System*. When enabled the button will be highlighted green.

Pushing the Security System Alarm will set the intrusion alarm.

A delay of 30 seconds is incorporated in the Alarm sounding so the operator can disable Security System when re-entering / exit.

Once the Timer is set, alarm will sound after 30 seconds unless the operator *turns* off (alarms disabled) the alarm feature.

All Alarms contacts need to be closed before Security System can be enabled !

The Computer System gives the following message: It is not possible to enable the Security System now. Please Shut all Doors & Hatches.

2.11 BILGE PUMPS

Touch from the *Main Menu* the block labeled **Bilge Pumps**. The Bilge Pumps System screen appears:

12 - 12 - 2000	ALARMLOG	BILGE PUMPS	15 : 33 : 50
).c-		
	Y		
1ª	SUMP HIGH		
AFT	AFT ENGINE RM	PVID ENGINE RM CABIL	Ì
0.	22		
	BILGE PUMP STAT	US HIGH WATER PUMP ALARM	
	FWD ENG RM PUMP	CABIN PUMP	
	AFT ENG RM PLMP	RUN AF7 ENGINE ROOM	
	ACT POST ROM	MURI SUMPLEVEL GABIN	
	6		
	<u></u>		

Bilge Pumps Screen

The Bilge Alarm Screen shows the following information:

Bilge Pumps Status & Alarms

- ✓ Bilge Pump Fwd Engine Run Indicator
- ✓ Bilge Pump Aft Engine Room Pump Run indicator
- ✓ Bilge Pump Aft Pump Run indicator
- ✓ High Water Pump Alarm Cabin
- ✓ High Water Pump Alarm Fwd Engine Room
- ✓ High Water Pump Alarm Aft Engine Room
- ✓ High Water Pump Alarm Sump Cabin

The High Water circuits are tied to the audible Alarm.

2.12 NAVIGATION LIGHTS

Touch from the *Main Menu* the block labeled **Nav Lights**. The Navigation Lights screen appears:

12 - 12 - 2000	ALARMLOG NAV LIG	HT STATUS	15:39:16
	ANCHOR		
	MASTHEAD PORT SIDELIG STERN LIGHT SIDELIGHT	нг D	
_f=			3
01	289 *		7
	NAV LIGHT STATUS PORT SUBLIGHT STED SIDELIGHT STERNLIGHT MASTHEAD LIGHT	RUEB BURN OUTS PORT SIDELIGHT STBO SIDELIGHT STBO SIDELIGHT MASTREAD LIGHT ANCHOR LIGHT	

Navigation Lights Screen

The Navigation Lights Screen shows the following information:

Navigation Light Status & Bulb Burn Out

- ✓ Port Sidelight
- ✓ Stbd Sidelight
- ✓ Stern Light
- ✓ Masthead Light
- ✓ Anchor Light
- ✓ Port Sidelight Bulb Burn Out Alarm
- ✓ Stbd Sidelight Bulb Burn Out Alarm
- ✓ Stern Light Bulb Burn Out Alarm
- ✓ Masthead Light Bulb Burn Out Alarm
- ✓ Anchor Light Bulb Burn Out Alarm

2.13 DC MONITORING

DC MONITORING

Touch from the *Main Menu* the block labeled **DC Monitoring**. The DC Monitoring screen appears:

DC Monitoring Screen

The DC Monitoring Screen shows the following information:

DC Monitoring System

<u>Voltage</u>

- ✓ Port Bank 24V
- ✓ Stbd Bank 24V
- ✓ Port 12V
- ✓ Stbd 12V
- ✓ Fwd Battery Bank 24V

Amperage Output

- ✓ Port Alternator
- ✓ Stbd Alternator
- ✓ Port 24V Charger
- ✓ Stbd 24V Charger
- ✓ Fwd Battery Bank Charger

2.14 AC SHORE POWER

Touch from the *Main Menu* the block labeled **AC Shore Power**. The AC Shore Power System screen appears:

AC Monitoring Shore Power

The AC Monitoring System Screen shows the following information:

AC Monitoring Shore Power

- ✓ Shore Power 1 Voltage
- ✓ Shore Power 1 Current
- ✓ Shore Power 1 Frequency
- ✓ Shore Power 2 Voltage
- ✓ Shore Power 2 Current
- ✓ Shore Power 2 Frequency

This yacht is equipped with Isolation transformers. These parameters are monitored on the primary side of the transformers.

2.15 AC SECONDARY SHIPS POWER *

Touch from the *Main Menu* the block labeled **AC II Ships Power**. The AC Monitoring Secondary Ships Power screen appears:

12 - 12 - 2000 ALARMLOG	SECONDARY HIPBOARD AC POW	15 : 56 : 06
	SECONDARY SOURCE	
5 20 25 20 0 POWER 0 Kw	200 220 240 180 VOLTAGE 0 V	58 60 62 55 Junio 4 4 65 FREQUENCY 0.0 V
20 10 50 50 0, CURRENT L1 0 A		20 40 60 50 0 CURRENT L2 0 A
	(MENU)	

AC Monitoring Secondary Shipboard

This AC Monitoring Secondary Shipboard AC Power Source shows the following information:

AC II Shipboard / Generator / Inverter

- ✓ Voltage
- ✓ Current L1
- ✓ Current L2
- ✓ Power
- ✓ Frequency

Click on this button *Main Menu* to go back to the Main Menu.

* Optional

3.0 ALARM LOG

When an alarm occurs the Monitoring System displays a warning message. A warning bar displays an alarm message, or an audible alarm triggered. External Visual and Audible Alarm can be triggered at the same time.

ALARMLOG

Detected alarm conditions appear on the Alarm Log Display. The Alarm Log Displays attributes as: The Date & Time the Alarm was triggered. The Time the Alarm was acknowledged. A description of the Alarm condition. The Alarm priority Level.

If an alarm is triggered the Alarm Log Display will automatically appear on the screen * (Optional !).

Touch from the *Menu* buttons the block labeled **Alarm Log**. The Alarm Logging screen appears :

ACK ALL	AGK ALARM	ALARM HISTORY	CURRENT LAST ALARM : CONFIG Sump High Water Alarm Cabin	EXIT			
	ALARM LOG ACTIVE ALARMS - 18						
Date	Time On	Time Ack	Description Alarm	Statu's			
12-12-00 1	5:18:52	15:19:39	Water in Fuel Filter Alarm Generator	Urgent			
$\begin{array}{c} 12 - 12 - 00 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 12 - 12 - 0 & 1 \\ 1$	5:18:52 5:18:52 5:18:52 5:18:52 5:18:52 5:18:52 5:18:52 5:18:52 5:18:52 5:23:23 5:23:58 5:25:54 5:29:50 5:29:50 5:29:50 5:29:50 5:29:50 5:29:50 5:29:50 5:29:50 5:29:50	15: 19: 39 15: 33: 45 15: 33: 45	Water in Fuel Filter Alarm Port Engine Water in Fuel Filter Alarm Stbd Engine Fuel Tank High Alarm DC Monitoring Fort 24V Bank Low Alarm DC Monitoring Stbd 24V Bank Low Alarm DC Monitoring Stbd 12V Low Alarm DC Monitoring Bow Thr. 24V Bank Low Alarm Smoke Alarm Lower Salon Smoke Alarm Upper Salon Heat Alarn Engine Room Smoke Alarm Grews Quarters Change Fuel Filter Generator Engine Exhaust Overtamp Dort Engine Change Fuel Filter Port Engine High Water Pump Alarn Fwd Eng Room Sump High Water Alarn Cabin	Urgent Urgent Urgent Urgent Orgent Orgent Urgent Urgent Urgent Urgent Urgent Urgent Urgent Urgent Urgent			

Alarm Logging

Acknowledge All Button: Click on this button to *acknowledge* all active Alarms.

ACK ALARM

Ack Alarm Button: Click on this button to *acknowledge* one alarm individual. The user must select each alarm to acknowledge the specified alarm. Click on the *Description Alarm* to select

the alarm :

Date	Time On	Time Ack	Description Alarm	Status
08-06-00	09:46:39 09:46:39		DC Monitoring Port 24V Bank Low Alarm DC Monitoring Stbd 24V Bank Low Alarm	Urgent Urgent
08-06-00	09:46:39 09:46:39 09:46:39		DC Nonitoring Stbd 12V Low Alarm DC Nonitoring Bow Thr. 24V Bank Low Larm	Urgent Urgent

When an Alarm occurs the text on the alarm condition is red. The Alarm Display contains a description of the alarm condition and recommends remedial action.

When the Alarm is inactive the alarm condition automatically cleared from the display, *once* the alarm is **inactive**, **acknowledged**, and **viewed**!

Alarm History : Click this button to go to the *Alarm History Display*. (See *Alarm History* 3.17)

EXIT

Exit Button: Click this button to close the Alarm Logging Page.

3.1 ALARM HISTORY

Alarm History Display

The Alarm History or Alarm Historical file is a record of alarm status which was previously save to the disk.

Click on these buttons to *scroll up/down* through the Alarm Data Record Log.

Clear Alarms . Click on this buttons to *clear* all alarms from the display. All previously alarms will be removed from the Alarm Log File.

The Alarms will be logged in the following format:

[Datestamp] [Timestamp] [Timestamp Ack] [Description] [Priority]

The default Alarm Data Record Log filename is alarm.log The Alarm Data Record Log is written to file in the directory of the Monitoring & Control application. Default C:\Searay\Sources.

A sample alarm record is shown below:

03-05-00	14:05:45 1	4:08:34	Fuel Day Tank Low Alarm	Urgent
03-05-00	14:05:45 1	4:08:34	Fuel Tank Aft Low Alarm	Urgent
03-05-00	14:05:45 1	4:08:34	Battery 24V Electronics Low Alarm	Urgent
07-05-00	16:02:15 1	6:03:04	Fuel Tank Aft Low Alarm	Urgent
07-05-00	16:05:18 1	6:06:02	Port Engine Low Oil Pressure	Critical

Return : Click on this button to return to the Alarm Log. (See Alarm Log 3.0).

3.2 CHANGE ALARM SETTINGS

From the *Alarm Log* touch the block labeled **Config.** The Alarm Configuration Settings is password protected. Enter a security code to access the alarm Configuration screen, and Press enter. The Alarm Configuration Screen appears:

Alarm Configuration screen

	ALARM CONFIGUE					
Alarm section	Alarm parameter	Low	Pre high	1 High		
Fort Engine	RPM		2800.00	3000.00		
Port Engine	Coolent Temp		205.00	210.00		
Port Engine	Oil Pressure	10.00				
Port Engine	Engine Load		100.00	105,00		
Port Engine	Gear 011 Pressure	10,00				
Port Engine	Gear 011 Temp		190.00	210.00		
Stbd Engine	RFM		2800.00	3000.00		
Stbd Engine	Coolant Temp		205.00	210.00		
Stbd Engine	Oil Pressure	10.00				
Stbd Engine	Engine Load		100.00	105.00		
Stbri Engine	Gear 011 Pressure	25.00				
Stbd Engine	Gear 0il Tenp		190.00	210.00		
Generator	Oil Pressure	10.00				
Generator	Coolant Temp		210.00	220.00		
Generator	Voltage	185.00		260.00		
Generator	Frequency	45,00		65.00		
Generator	Current L1		100.00	102.00		
Generator	Current L2		100.00	102.00		
Generator	Power		25.00	30.00		
Freebwater	Tank	0.00				
Fuel	Tank	0.00		59.72		
Blackwater	Tank			100,00		
Graywater	Tank			100.00		
AC Shore Power	1 Voltage	185.00		260.00		
AC Shore Power	1 Frequency	45.00		65.00		
AC Shore Power	1 Current		50.00	52.00		

The Alarm Configuration Page allows you to change the settings of an Alarm. For the Alarm values a **High**, **Pre High**, and a **Low** Alarm can be defined.

OK

Click on the Ok button to leave the Alarm Configuration Page, and Go back to the Alarm Log Screen

* Double Click on the specified Alarm Parameter to change Alarm Setting.

A Change Alarm Setting dialog Box appears on the screen:

Click the Control box, (Low, Pre High, High) and enter a value (-keyboard), 200.0

A numeric keypad appears, to enter a value:

Numeric Keypad

Click on the **Ok** Button to make any changes to the Alarm Control Box (Low – Pre- High Alarm).

Cancel button: Do *not* save any changes that have been made in the Alarm Settings Dialog Box.

OK button: Save any changes that have been made in the Alarm Settings Dialog Box and make it applicable to the Alarm Monitoring System.

3.3 CHANGE BACKGROUND COLOR

From the *Main Menu* touch the text labeled **About**. The About Box screen appears :

Change Background Color Pages

Color Box . The Color Box displays a color corresponding to a Specified value. The following colors can be selected : Background - Main Front Pages (Screens).

ABOUT

Set the color of the Color Box by clicking on it, with either the Operating or Color Tool to Display a *Color Palette*, as shown in the following illustration. Releasing your mouse button on the color you want to select.

Color Palette

After Closing the About Box the selected colors are accepted by the System.

3.4 CHANGE ENGLISH / METRIC SELECTION

From the *Main Menu* touch the text labeled **About**. The About Box screen appears :

Change Software Conversion

Selection Box. Click on this button to select US (English) or Metric Mode.

ABOUT

A numeric keypad appears:

Enter the security code to access the US / Metric Selection box, and press *Enter*. Click on the 'Software Conversion Selection box' to change US / Metric Mode.

The Conversion Selection box change into 'Metric':

The password code is a security measure to restrict access to the US/Metric selection box by unauthorized users.

EXIT

Exit: Click on this button to leave the About Box and return to the Main Menu of the Monitoring System.

3.5 HISTORICAL TRENDING

Touch from the *Main Menu* buttons the block labeled **Historical Trend**. The Historical Trending screen appears:

12 - 12 - 2000	c	URRENT.	HI: 15 : 43 : 37		TREND	ING	1	5 : 45 : 14
Bilge Pumps								
Bilge Aft Eng Rm								
Bilge Pump Aft								
Bilge Fwd Eng Rm								
High W Pump Fwd								
High Sump Level								
High Water Pump								
High W Pump Aft								
HISTORY								4
								12:12
	4							<u>k</u>
							Exith	listorical
			Refresh	Bilge Pu	nibe		Tre	nding

Historical Trending

When the data record is logged, it is not immediately written to disk. The Data is temporarily stored in a buffer memory. The buffer is written to disk at a specified interval, or when the buffer is full.

The Historical Trending Display views *current* Data (Buffer Memory) on a Trend Display. The graphs that can be displayed for the Historical Trending Screen for the *Searay 680SS* Monitoring system:

Port Engine Stbd Engine Shore Power Generator / Engine Generator / II Shipboard Power Bilge Pumps DC Monitoring Port DC Monitoring Stbd

The buttons on the Historical Trending Display lets you :

Load Data : Load the Specified Data Log (Port Engine, Bilge Pumps, Tanks etc.), for view in the Historical Display.

S Eng Gear Oil

Data Field Buttons: List of Data Fields (Engine Temp, Oil Pressure, etc) and let you load them into the display for viewing on the Trend Display.

Refresh: Click on this button to move to the end of the Log file Buffer (it gives you real-time data updates). The graph is redrawn at the new scale.

History Button: Click on this button to go to the History Trend Charting Display. (See History Chart Display 3.6)

Exit HT Button: Click on this button to leave the Historical Trending Display and return to the Main Menu of the Monitoring System.

			HISTOP	RICAL T	RENDI	VG			
	ste CLAPENT 9	: 43 : 31	1011 (NE: 355						
	618-								5
S Engliseer CH	608								Ŭ
S Eng Geer Oil	412								
P Gen L 1 Current	475								
P Gent 2 Current	318								
Peentacument	216								
P Gen Voltage 1	310								
P Ges Votage 3	219								
	211								
	571								
HISTORY									
O	R.								
	*************	Rell	48,42,21	101425.18	884235	10-02-46	101-0245	18-02-31	10-12-15
	4								
				v		1995		Vine and	
		Refrest	A	C Port Gene	ator			Trending	3
		7			2			0	

HISTORICAL TREND DISPLAY

- 1 Data Log The name of the Current data Log
- Pen Assignments list This is a list of buttons representing all pens and their current assignments. A pen is labeled with the name of the data field it is assigned to. A pen is ON which means it will be displayed on the Trend Display, if the button is highlighted (green).

Click on the data field button to toggle between On (green)and OFF (red).

- **3** Load Data Click on this button to *load* the Specified Data Log.
- Decrease X Scale Zoom In option. Drag these buttons to a specified value to decrease the X scale of the graph ('frequency' of the graph).
- **5 Decrease Y Scale** *Zoom In option. Drag* these buttons to a specified value to decrease the Y scale of the graph ('amplitude' of the graph).
- 6 History Click on this button to go to the History Trend Charting Display. (See 3.6)
- **Refresh Click** on this button to move to the end of the Log file Buffer (it gives you real-time data updates). The graph is redrawn at the new scale
- 8 Exit Historical Click on this button leave the Historical Trending Display and return to the Main Menu of the Monitoring System.

<u>3.6 HISTORY CHART DISPLAY</u>

Touch from the *Historical Trending* the block labeled **History**. The History Chart Display screen appears :

Date	These	RPM	Costant Temp			Press	Oil Pressure	Boour Pressure	Engline Hours
95.942000	08.99532	\$955.0	16115.0	4975.5	48536.2	\$377.8	55418.0	5988.2	20173,0
95.94/2000	68.95:41	6823.5	15536.0	\$640.0	67909.0	9010.5	10051.5	5933.1	19919.9
05.04.2000	09:09:52	4732.0	15782.0	\$296.0	\$7517.4	8553.9	9622.0	5905.0	30175.0
05/01/2000	48:16:02	6868.5	16306.0	\$232.0	00056.6	9122.0	10050.5	19862.6	38431.0
05 04 2000	08:10:11	7117.0	16561.0	\$296.0	8,9229,8	\$122,5	9920.5	5900.2	20176.0
05/04/2000	98:16:25	7246.0	16563.6	1214.0	45465.9	9122.2	10048.0	5930.4	20174,0
95/04/2000	08:16:36	7118.2	16558.0	\$297.5	65467.9	9057,5	9620.5	5993.4	19919/8
95/04/2000	08:10147	6599.0	100444.0	\$213.2	65496.6	8057.5	9536,5	5868.5	20044.0
95/04/2000	98:11:01	6828.5	11200.0	\$104.8	68033.0	9056.8	9408.5	5998.9	19919.0
95 04 2000	6811211	60998.8	15534.0	4576,8	68033.8	\$5553,2	502756.0	5535.7	20174.8
05/04/2000	00:11:22	4186.2	-15201.0	10775.2	110926.5	12686.2	27053.0	3975.6	49579.0
05.042000	12:01:05	\$4557.5	06225.0	12044.5	61642.0	8625,0	10404.5	4432.0	33237.0
05/01/2000	12:91:25	\$1557.3	. 15220.0	12235.8	61612.9	\$1560.2	10225.5	8171.6	32607.0
05/04/2000	12:01:36	14364.5	.10598.8	12108.5	62151.3	5,6363	17968.0	#559.9	33492.0
05042000	12:01:47	14364.5	44634.0	12237.5	60629.2	6,7453	17970.0	4500.2	32213,0
95.942000	12/01/57	\$4492.5	-15293.8	12364.8	61642.9	\$240,5	18225,0	4591.9	32978,9
95/04/2000	12/02/08	\$4237.8	13968.0	12308.5	61642.9	\$432.2	18353.0	4559.4	\$1215,0
05/04/2000	12:82:18	14364.0	-12998.0	12108.8	58587.4	8495,2	18896.5	4895.9	32289.0
95 94 2000	12:00:29	14121.2	-1/2999.0	12492.5	01134.6	8303.2	17839.5	4327.5	32719.0
95/04/2000	13:25:40	10291.5	-25208.0	3483.5	107796.0	7595.0	15430,5	5682.9	56776.0
95 04 2000	12:25:44	10515.0	-24952.8	3464.0	103277.7	7650,8	15383.0	5593.0	56515.0
05012000	12:25:50	98.155.8	28678.8	1470.0	100304.5	1723.5	15016.5	5750.4	556251,0
95 84 2000	12:25:55	98519.8	.28985.8	3420.2	108822.9	7659.2	15174.0	5683.1	58172.0
05/04/2000	13:26:00	10454.5	-25208.8	1055.8	108826.9	7595,5	15430.5	5019.1	58516,9
95/04/2000	13:26:04	98582.8	-24954.8	1483.5	100830.9	7467,8	15815,5	5619.4	58517,0
0000100	132603	106.17.2	24954.8	14815	106343.3	7467.2	15814.5	5551.6	58516.0

History Chart Display

The History Chart Display allows you to load a history data file and view the data in a chart format.

The buttons on the History Chart Display lets you :

Load Data : Load the Specified Data Log (Port Engine, Generator, Bilge Pumps etc.), for view in the History Chart Display.

Data Log: Select this button to go back in History by touching the Right arrow to increase the amount of *days* and the left arrow to decrease the amount of *days*.

Start of Data Log : Click on this button to go to the first record of the data Log.

End of Data Log : Click on this button to go to the last record of the data Log.

Up Records : Click on this button to move up through the data, 10 log records at a at a time.

Down Records : Click on this button to move down through the data, 10 log records at a at a time.

HISTORY

Each Data logging events records a snapshot of selected variables to a log file.

Monitoring Data Log Files are created during run time. The Monitoring Data Log files consists of records containing data for up to 8 variables.

The History Chart Display allows you to load a history data file and view the data in a chart format.

Each record log file is marked with a time stamp, and a date stamp:

[TimeStamp] [DataStamp] [value1] [Value2] [Value3] ...

A sample data History Data Log is shown below :

Data	Time	Press	Temp	Level	RPM	Hours			Temp2
03-06-00	14:05:42	36.5	84.4	18.5	332.3	1.2	4.0	1.8	84.0
03-06-00	14:05:52	22.2	72.2	47.8	344.3	1.8	4.1	1.6	173.0
03-06-00	14:06:02	34.5	58.3	15.5	390.3	1.9	3.0	1.5	108.0
03-06-00	14:06:12	32.5	75.6	45.0	264.2	2.0	4.6	1.2	173.0
03-06-00	14:06:23	39.2	68.3	19.0	176.1	2.1	6.3	1.5	199.0
03-06-00	14:06:33	20.8	30.6	51.0	288.2	2.2	1.6	1.3	49.0
03-06-00	14:06:43	39.0	31.7	55.0	240.2	2.3	6.0	0.6	85.0
03-06-00	14:06:53	50.8	65.6	28.8	384.3	2.4	5.5	0.9	117.0

Data is logged to a log file named **[Day Month Year Hour]** for example we 20 dec 2000 10, Until a time interval 1:00 is met, then a file break occurs. At the time of the file break, the current log file is closed and a new one is opened for continued data logging.

The History Monitoring *Data Log* is written to file in the directory / *Logging* of the Monitoring & Control application. Default C:\Searay\Logging

A. From the Main Menu press (keyboard) *Ctrl - F12*. You will see now a numeric keypad :

B. Enter your password to access the **Login Configuration** dialog box.

Your password code is a security measure to restrict access to the Configuration Box by Unauthorized users. If you do not want to log on with a password or if the password is incorrect the system disable the DMP Configuration Box.

C. The DMP Configuration Box appear.

			Configurat	ion Card /	Addresses	5	
Station 1-3			Card Nr 1	Station 1	1		Data 1.1 0 1.2 0
	3	ADC Value Min	ADC Value Max	Range	Offset	Invert Input	1.3 <u>0</u> 14 <u>0</u> 15 0
	1.1	208.0	1014.0	20.0	180.0	No	1.6 3 9
	1.2	208.0	1014.0	\$30.0	40.0	No	1.7 . 0
	1.3	208.0	1014.0	100.0	0.0	No	1.8 4 0
	1.4	208.0	1014.0	100.0	0.0	No	< 0
	1.5	208.0	1014.0	70.0	180.0	No	< 0
	1.6	208.0	1014.0	\$30.0	40.0	No	e 0
	1.7	208.0	1914.0	\$ 100.0	0.0	No	a 10
	1.8	208.0	1014.0	\$100.0	0.0	No	× 0
D M/P			SAVE	CHANGES] 4		€ 0 € 0 € 0
Name User 1 in 2000 09:04			12	EXIT	5	оругионт (б) BADIO ZEELAND DMP

- **1 JB Address Selector** This button used to display the Station card Addresses.
- **2** Communication Data Box This window used to display communication status.
- **3 Analogue / Digital Input Settings** The various input settings can be changed with these configurations windows.
- 4 Save Changes Click on this button to save changes.
- **5 Exit -** Click on this button to leave the Configuration Dialog Box.

Note : The End-User must *not* modified the Configuration System. Changes to the Configuration Screen will take effect on the Monitoring System Software!

4.1 CHANGE ANALOGUE INPUT SETTING

1. Click on the JB Station Address Selector to choose the specified analogue input Address. For Example Analogue Card Address 1 Station 1.

Card Nr 1 Station 1

2. The Analogue Input Settings Windows appears:

- A Card Input Address (1.1-1.8)
- B ADC Value Minimum
- C ADC Value Maximum
- D Range
- E Offset
- 3. Change For Example (Generator Voltage L1-L2) Card Address 1.1 Station 1

	ADC Value Min	ADC Value Max	Range	Offset	invert input
1.1	208.0	1014.0	70.0	180.0	No
1.2	208.0	\$1014.0	\$30.0	40.0	No
1.3	208.0	\$1014.0	100.0	.0	No
1.4	208.0	\$1014.0	100.0	.00	No
1.5	208.0	\$1014.0	‡ 70.0	180.0	No
1.6	208.0	\$1014.0	\$30.0	40.0	No
1.7	208.0	1014.0	\$ 100.0	.0	No
1.8	208.0	1014.0	100.0	• 0.0	No

Sensor Range Voltage = 4-20 mA 0- 300 V

- * Select the ADC Value Min and enter the value 208 in the appropriate box. **208** (min = 4mA)
- * Select the ADC Value Max and enter the value 1014 in the appropriate box. 1014 (max = 20mA)
- * Select the *Range* and enter the range 200 in the appropriate box. **300** (range =300-100)
- Select the Offset and enter the offset 0 in the appropriate box.

0

	ADC Value Min	ADC Value Max	Range	Offset	invert Input
1.1	208.0	1014.0	70.0	180.0	No
1.2	208.0	\$1014.0	\$ 30.0	40.0	No
1.3	208.0	\$ 1014.0	\$100.0	• 0.0	No
1.4	208.0	\$ 1014.0	100.0	.00	No
1.5	208.0	\$ 1014.0	\$70.0	180.0	No
1.6	208.0	\$ 1014.0	\$30.0	40.0	No
1.7	208.0	\$ 1014.0	\$ 100.0	• 0.0	No
1.8	208.0	1014.0	€ 100.0	‡ 0.0	No

4. SAVE CHANGES

Click on this button to save any Changes.

A screen message appears:

Do you war	nt to Make
these Chan	iges User 1?
ΠΚ	Cancel

Click on OK to *Save* any changes, and select Cancel to cancel any changes, and go back to the previous setting.

4.2 CHANGE DIGITAL INPUT SETTING

 1.
 Click on the JB Address Selector to choose the specified digital input Address.

 For Example Digital Card Address 4 Station 1.
 Card Nr 4 Station 1

2. The Digital Input Settings Windows appears:

- 3. Change For Example Address 4.2 Station 1
 - A Input Address (4.1-4.8)
 - B Click on this button to Enable/ Disable Input Address 4.2
 - ENABLED
 - 📕 DISABLED
 - **C Click** on this button to Change Digital Input Address 4.2 from 'Normally Open' NO to 'Normally Closed' NC.

NC (Normally Closed)

SAVE CHANGES

4.

Click on this button to save any Changes.

4.3 CHANGE DISPLAY SCALE

From the Port Engine Page change the Engine Speed Display scale from 2000 to 3000 RPM. Press **F12** (*Keyboard*) to activate the Display Scale Settings.

Port Engine Screen

0.0	Mini	mum
\$3000.0	Maxi	mum
\$500.0	Incr	Scale

Select the *Minimum / Maximum* of the specified Display Meter. (Example RPM)

Click on the control box, (Minimum, Maximum, and Increment) and enter a value (-keyboard). Or click on the up and down arrow (-mouse) at the left side of the Control box, to scroll Up-Or down in increments.

Press F12 (Keyboard) again to disable the Display Scale Settings.

4.4 CHANGE TANK TABLE

From the Tanks Page calibrate the Tanks from *percentage* to *Gallons*, and press **F12** (*Keyboard*) to activate the Display Scale Settings

Tanks Screen

E V	Black Vater
%»	Gallons
0	0.0
10	10.0
20	20.0
30	\$ 30.0
40	40.0
50	\$ 50.0
60	\$ 60.0
70	70.0
80	\$ 80.0
90	90.0
100	100.0

Click on the control box, and enter a value (-keyboard) to change the scale Tank indicator from percentage to Gallons.

Or click on the up and down arrow (-mouse) at the left side of the Control box, to scroll Up- Or down in increments.

200.0
200.0

Press F12 (Keyboard) again to disable the Display Scale Settings.

4.5 NMEA DATA PROTOCOL

Nmea 0183 - Standard For Interfacing Marine Electronic Devices

The NMEA 0183 Standard for Interfacing Marine Electronics Devices is a voluntary industry standard, first released in March of 1983. The NMEA 0183 Standard defines electrical signal requirements, data transmission protocol, timing and specific sentence formats for a 4800 baud serial data bus.

The following Data uses the Nmea0183 protocol:

Water depth, Meters
Water depth, feet

* WATER TEMPERATURE

MTW Water Temperature

\$--MTW,**x.x**,**C***hh <CR><LF>

Temperature, degrees C

* RUDDER ANGLE

RSA Rudder Sensor Angle

\$--RSA,**x.x**,A,**x.x**,A*hh <CR><LF>

Port Rudder Sensor

Starboard (or single) Rudder Sensor

5.0 COMPUTER SETTINGS

5.1 DISPLAY PROPERTIES

The Display properties can be changes by using the display icon In the *Control Panel*. Click the Start button, point to *Settings*, and then click *Control Panel*.

Double click Display.

The Display Properties box appears. Click on the Settings tab to change your resolution Screen, and so on.

Display Properties ? X	
Background Screen Saver Appearance Effects Web Settings Image: Screen Saver Settings Image: Screen Saver Settings Display: HP 30 Monitor Colors Screen area Less More High Color (16 bit) Image: Screen area More Sol by 600 pixels More Sol by 600 pixels	Adjust these settings for the Searay 680 SS Monitoring & Control System : High Color (16 bit) Screen Res. 800 x 600
Extend my Windows desktop onto this monitor.	
OK Cancel Apply	

Click on the Effects tab to change the visual effects on the screen :

Enable option **"Smooth edges of font** screen". And then click Ok.

5.2 SETTING TIME & DATE

The Time & Date settings can be changes by using the Regional Settings icon In the Control Panel. Click the Start button, point to Settings, and then click Control Panel 🛃 Start

Double click Regional Settings:

The Regional Settings Properties box appears. Click on the Regional Settings tab to adjust the settings for your local time and date zone.

Select the Time and Date Tab to adjust the Date & Time settings for the Searay 680 SS Monitoring & Control System:

Regional Settings Properties Regional Settings Number Currency Time Date Appearance Time sample: 2:01:20 PM HH:mm:ss • Time style: -Time separator: AM symbol: • PM symbol: • OK Cancel Apply

Time Style : HH:mm:ss Time Seperator : :

Short Date Style : MM-dd-yy Date seperator : -

And then click Ok.

? ×

5.3 NETWORK PROPERTIES TCP/IP

The Network utilities can be changes by using the Network icon In the *Control Panel*. Click the Start button, point to *Settings*, and then click *Control Panel*

Double click Network:

The Network utility screen appears:

etwork 🤗
Configuration Identification Access Control
The following network components are installed:
Client for Microsoft Networks Realtek RTL8019 PnP LAN adapter or compatible NetBEUI TCP/IP File and printer sharing for Microsoft Networks
Add Remove Properties.
Client for Microsoft Networks
Eile and Print Sharing
Description
OK Cancel

Select Specify an IP Address, and type the following IP Address for the Searay 680 SS Monitoring & Control System:

IP Adress Server Computer. 192.168.0.2 Client Computer. 192.168.0.1

Subnet Mask : 255.255.255.0

And then click Ok.

Click on the TCP/IP protocol. The TCP/IP Properties screen appears: Click the IP Address Tab.

Bindings	Adv	anced	Ne	BIOS
DNS Configuration	Gateway	WINS Coni	iguration	IP Addres
An IP address can If your network doe your network admir the space below.	be automat is not autom nistrator for a	cally assigne iatically assig an address, a	ed to this co n IP addre and then typ	omputer. sses, ask peitin
C <u>O</u> btain an IP	address aut	omatically		
● Specify an IP	address: —			2
IP Address:	192	. 168 . 254	4.7	
S <u>u</u> bnet Masl	c 255	. 255 . 25!	i. O	
				020 12

5.4 SHARING FOLDERS & COMPUTERS

1. In My Computer , right click the local drive (C:) you want to share, and then click Sharing.

2. On the Sharing Tab, click Shared as.

3. In Share Name, type a name for the folder e.g. C

4. In **Acces type**, click **Full** Access, means the user has the ability to read, delete, and change files.

5. Click OK.

Not Share Shared A:	ed 3]			
Share <u>N</u> a	me: C			
<u>C</u> omment:				
Access Type	·			
C Read-	Only			
• <u>F</u> ull				
C Deper	nds on Pass	word		
Passwords: -				
Read-Onl	y Password			
Full Acces	ss Password	ł: [
Full Acces	ss Password	t:		

* Be sure you installed the file- and print sharing services (Windows 98).

6. Double click **Network Neighborhood**, and then double click the other computer (*Searay 1 / Searay2*).

If the computer you are looking for is not in your workgroup or domain, first click Entire Network, and then double click the appropriate workgroup or domain.

- 7. Right Click the shared folder (C:) and then click **Map Network Drive**.
- 8. Set Drive Letter to H:.
- 9. Enable 'Reconnect at logon' to connect to the shared H drive, each time you log on.

ap Net	work Drive		?
<u>D</u> rive:	🖃 H:	-	OK
<u>P</u> ath:	\\Searay1\C		Cancel
	Reconnect at logon		

10. Click **OK**.

5.5 SETTING.INI FILE

The Settings of the Monitoring & Control System are stored in Settings.ini file. The *settings.ini* file can be found in the directory in which the Monitoring software is installed. Default C:\Searay\Sources.

Setting.ini (Default):

[General] ServerClient=Server SoftwareConversion=US PortJunctionBox=Com1 IPAdressServer=192,168.0.2 PortNMEADataVesselDepthSpeedTemp=Com3 NmeaStringNameVesselSpeed=VHW PortNMEADataRudderAngle(RSA)=Com4 PortNMEADataGPSData(GLL/VTG)=Com5 AutoJumpAlarm=FALSE ParPortAddress=378 AutoShutdown=FALSE DataSampleTime=500 BackgroundColor=10066329 NameMY="SEA RAY 680SS" NameCameraSystemExe="C:\Program Files\MGA NT Powerdesk\Matrox Video Tools\VidPres.exe" OptionalGrayWaterTank?=TRUE OptionalSecundaryShipboardPower?=TRUE NameSecundaryShipboardPower=GENERATOR BlackWaterPumpStart%=90 BlackWaterPumpStop%=10 FireBilgeAlarmBreachOutput?=TRUE

PortJunctionBox=Com1	Select the Co Communicati	m Port of the Monitoring System on.
IPAdressServer=192.168.0.2	Describe the System.	TCP/IP address of the <i>other</i> Computer
PortNMEADataVesselDepthS	SpeedTemp=Com3	Select the Com Port of the Water- Depth , Temp & Speed Nmea Comm.
PortNMEADataRudderAngle(RSA)=Com4 Select Comn	the Com Port of the Rudder Angle Nmean.
PortNMEADataGPSData(GLI	_/VTG)=Com5	Select the Com Port of the Vessel Speed & Gps Comm.
AutoJumpAlarm=FALSE	Set this parameter T automatically appear Control Software.	RUE / FALSE to enable / disable the of the Alarm Page in the Monitoring &

OptionalGrayWaterTank?=TRUE	Set this paran Gray Water Ta	neter TRUE / FALSE to enable / disable the ank for the Monitoring & Control System.
OptionalSecundaryShipboardPower	?=TRUE	Set this parameter TRUE / FALSE to Enable / Disable the II Shipboard Power for the Monitoring & Control System.
NameSecundaryShipboardPower=0	GENERATOR	Describe the Name of the Secondary Shipboard Power. (Generator / Inverter)
BlackWaterPumpStart%=90	The Monitorin at 90 % of the	g System will start the Black Water Pump Black Water Tank.
BlackWaterPumpStop%=10	The Monitorin at 10 % of the	g System will stop the Black Water Pump Black Water Tank.

*Not*e : The End-User must *not* modified the Setting ini File. Changes to the Setting.ini Configuration file will take effect on the Monitoring System Software!

5.6 INSTALLATION AND SETUP

The "DMP Monitoring System" Software is distributed on 3.5 "Floppy's diskettes / CD-Rom.

To Install ' the Monitoring & Control System' do the following:

- 1. Start Microsoft Windows 98 / NT4.0 or later.
- 2. Insert Diskette 1 / CD-ROM in the 3.5 " Drive / CD-ROM Drive.
- 3. From the Windows Explorer select floppy 3¹/₂loppy (A:) / CD-ROM Drive (D:).
- 4. Start Setup.exe and follow the on-screen instructions to process the installation.

Please enter the directory in w Searay Monitoring System V1.I	hich to install D Setup.
Searay Monitoring System V1 C:\SeaRay\Sources	.0 Setup Directory: Change
 < Back Fin	ish Cancel

Directory Installation

Select *Finish* to continue the installation of The Monitoring & Control Software. During the installation program, the files from the diskette / CD Rom are copied into the located directory (C:\Searay\Sources).

Eutracting file to	C-\CeaPau\Cources\serpdru	
Extracting the to	c. (Jeanay (Jources (Serpurv	
	75%	
	7 3 70	
	Cancel	

The Monitoring System Software installation is successful. Click **OK** to complete the Installation procedure.

aray Monitoring Syste	m V1.0 Setup Installation
Searay Monitoring	System V1.0 Setup installation successful!
	ОК