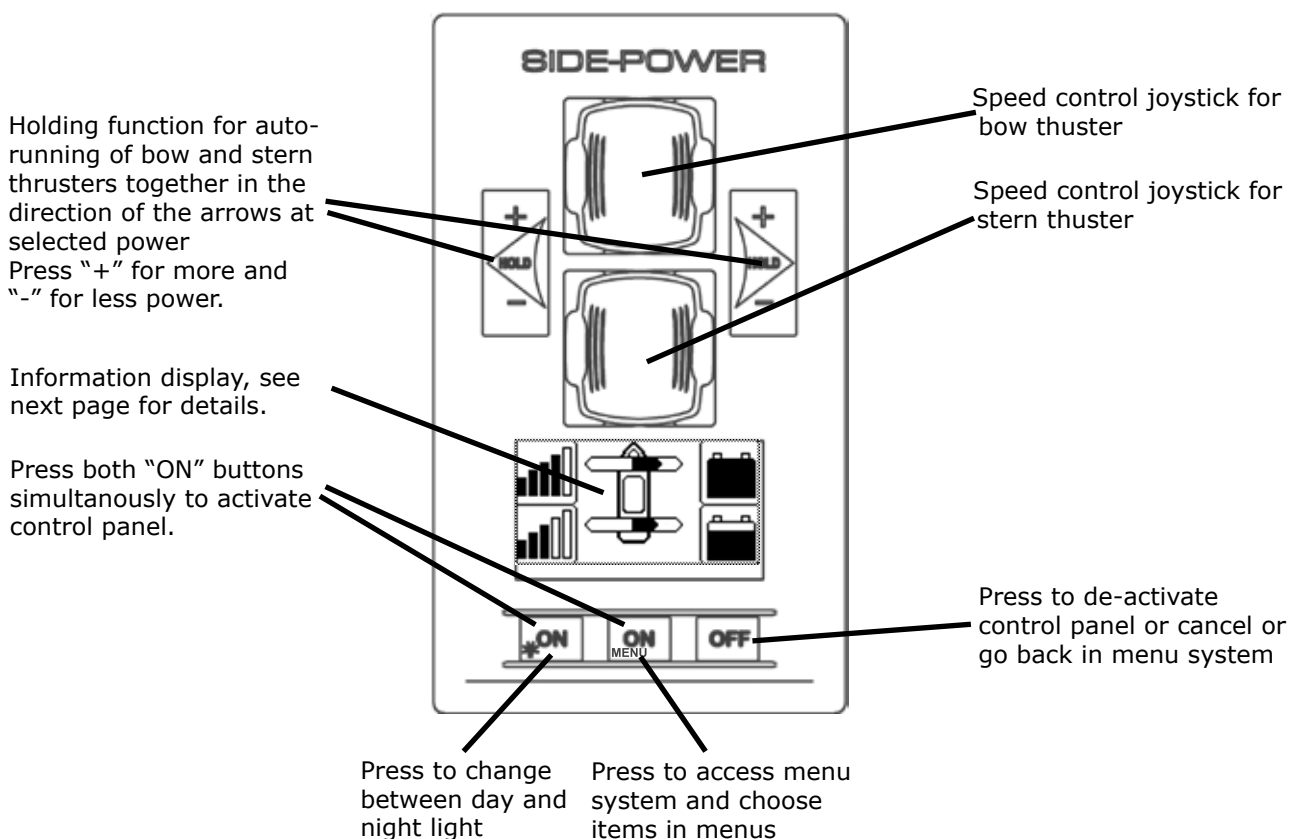SIDE-POWER
Thruster Systems

PJC-212
Control panel with S-link™ CAN-bus connection

S-link™

Product features

- For proportional thruster control with the new Power Controlled DC-thrusters

- Finger tip control speed control with purpose designed joysticks

- Hold - function for easy docking, runs thrusters at selected power

- Back-lit LCD display with instant feedback
  - System status
  - Amount of thrust & direction of thrust
  - Thruster temperature/remaining run time
  - Battery supply voltage to thrusters
  - Monitoring of Automatic Mainswitch (informs if the fuse has blown or the manual override is activated)

- Interactive multi-language menus

- CAN-Bus communication with thrusters and accessories

- Plug & play cables, waterproof and compact connectors

- System setup via "wizard"

- Diagnostics via panel/computer interface

- Built-in audible alarm "buzzer"

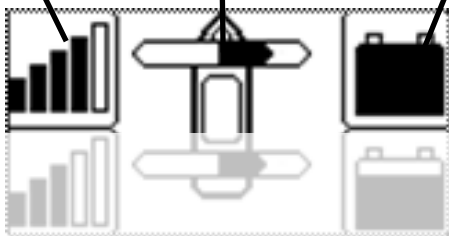- Connector for external "buzzer"/loud audible alarms

Holding function for auto-running of bow and stern thrusters together in the direction of the arrows at selected power
Press "+" for more and "-" for less power.

Information display, see next page for details.

Press both "ON" buttons simultanously to activate control panel.

Speed control joystick for bow thruster

Speed control joystick for stern thuster

Press to de-activate control panel or cancel or go back in menu system

Press to change between day and night light

Press to access menu system and choose items in menus

SIDE-POWER THRUSTER SYSTEMS

CONFIDENCE BY CONTROL

SIDE-POWER
Thruster Systems

DISPLAY IN NORMAL USE:

Bow thruster information

Remaining run time of thruster based on the electric motors heat at present. As bars empties you have less run time left.

Thrust power and direction

Battery supply performance based on delivered voltage to thruster. As the battery empties, you have less power and less run time left
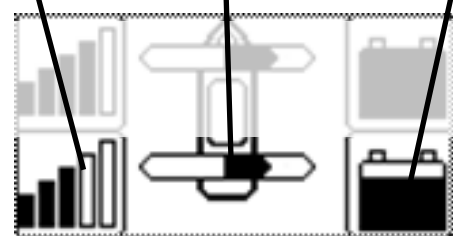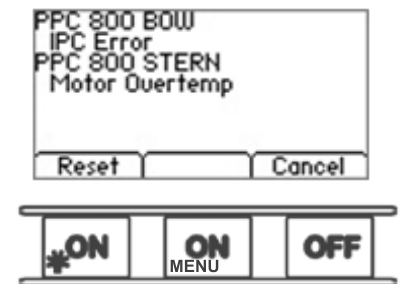
Stern thruster information

Remaining run time of thruster based on the electric motors heat at present. As bars empties you have less run time left
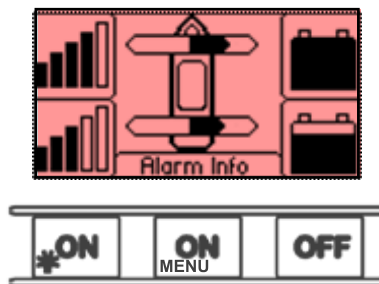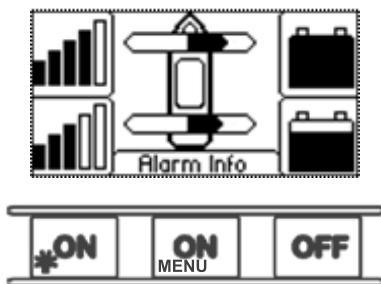
Thrust power and direction

Battery supply performance based on delivered voltage to thruster. As the battery empties, you have less power and less run time left

DISPLAY WHEN ALARMS:

When there is a problem or a fault, the panel will show this alarm situation by the LCD display blinking in red color.

The panel will also change to show "Alarm Info" beneath the "boat", indicating that by pressing the corresponding button (centre ON) you will get information about what the problem is (example below).

```
PPC 800 BOW
 IPC Error
PPC 800 STERN
 Motor Overtemp

Reset        Cancel
```

If the problem is that the voltage delivered from the batteries are too low for the thruster to be allowed to run, this is shown directly on the display by the battery that is not delivering being replaced by the alarm sign (see example).

If the issue is something else, the alarm signal will replace the remaining run time indicator for the thruster / system that is causing the alarm.
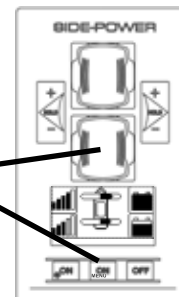
SIDE-POWER
Thruster Systems

MENY SYSTEM:

Access meny system by pressing menu button (middle on button)

Move around in menues by using the stern thruster joystick

Follow instructions on the screen and press buttons as indicated in LCD screen

CALIBRATION

Choose to calibrate the "HOLD" function so that bow and stern thrusters push the boat equally against the dock.

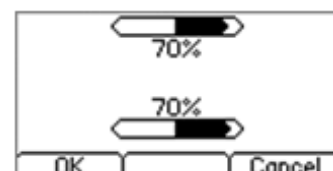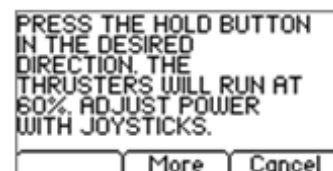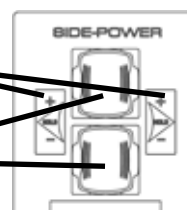*Note! The thruster will be run to perform this adjustment so Make sure that it is safe to run them.*
We advice that you put one fender as close to bow and one as close to the stern as possible and adjust thrusters so that they push about equally.

Follow instructions on the screen
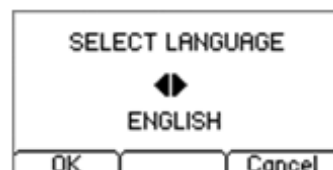> More

> + on the hold button in the desired direction

> Adjust each thruster with their joysticks

PRESS THE HOLD BUTTON IN THE DESIRED DIRECTION. THE THRUSTERS WILL RUN AT 60%. ADJUST POWER WITH JOYSTICKS.
| | More | Cancel |

70%
70%
| OK | | Cancel |

LANGUAGE

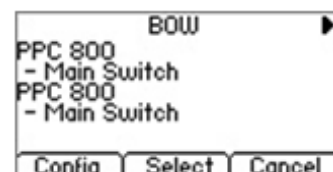Choose language by moving stern joystick - English, Norwegian, German, French, Spanish and Italian.
Please note that on early release software, there might be some details missing in some languages but Norwegian and English will always be present.

SELECT LANGUAGE
◆▶
ENGLISH
| OK | | Cancel |

SYSTEM

Shows all the components on the S-link system. The first time you select this menu item, it will first show "scanning system" for 30 sec-onds. Then you can see the parts by moving between the bow and stern thruster screens with the stern joystick.

If you add components to the S-link system you have re-scan it by se-lecting "Config" and you will then have to tell the system which thruster is bow and which is stern by testing with the corresponding joystick and if it is opposite, press the key marked "Move" in the display.

BOW ▶
PPC 800
– Main Switch
PPC 800
– Main Switch
| Config | Select | Cancel |

BOW
PPC 800
– Main Switch
PPC 800
– Main Switch
| Move | Select | Cancel |

INFO
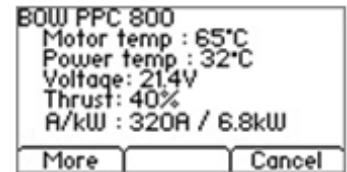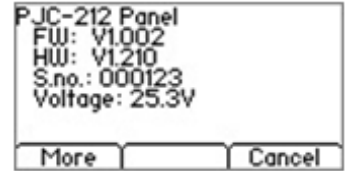The info selection is a service screen. Choose the Info screen if you wish to check your system.
When in this screen you will be able to run the thrusters individually with the joysticks or simultanously with the "Hold" function.
You will be able to see three screens by pressing the "more" button

1st. screen : Control panel info:
   -S-link voltage
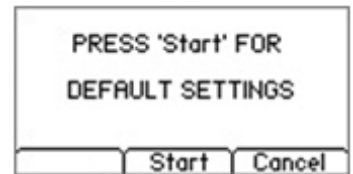   -Hardware and Software version of the controlpanel you are on.

2nd & 3rd screens: Bow and sternthruster information
   - Motor temperature
   - Speed controller (PPC800) temperature
   - Actual voltage
   - Thrust percentage it is running
   - Current consumption & watt at present.

```
PJC-212 Panel
  FW:  V1.002
  HW:  V1.210
  S.no.: 000123
  Voltage: 25.3V

  More            Cancel
```

```
BOW PPC 800
  Motor temp : 65°C
  Power temp : 32°C
  Voltage: 21.4V
  Thrust: 40%
  A/kW : 320A / 6.8kW

  More            Cancel
```

DEFAULT SETTINGS
Reset all settings to factory default - follow instructions on screen

```
  PRESS 'Start' FOR
  DEFAULT SETTINGS


          Start   Cancel
```

PANEL SETUP
Follow instructions on screen and the stern joystick to choose and set :

Backlight level : Daytime background light is white and you can choose 5 levels of light

Nightlight : Let you choose between: White, Red, Blue & Green light in Night mode as well as the light level

Timer Auto Off will let you choose the auto-off timer in the panel
(time from last use until the panel shuts itself and the rest of the thruster system down).

```
BACKLIGHT LEVEL ▶      5
NIGHTLIGHT
-COLOR             GREEN
-LEVEL                 1
TIMER AUTO OFF        05

  OK    Select  Cancel
```

NOTES!

The audible alarm will only sound when the thrusters are "auto running"
When the expected run time due to motor heat or battery power reduction is getting within 35% of remaining time it will start sounding a single "bip", then two "bips" and three "bips" etc. the closer you get to auto shutdown

In "HOLD" (auto running) both thrusters will shut down when the safe running of any of the thrusters is reached.

Using the joysticks you can use the "other" thruster even if one is shut down because of heat, low voltage or other issue.

Updated for control panel software version 1.004 - 26.04.2010