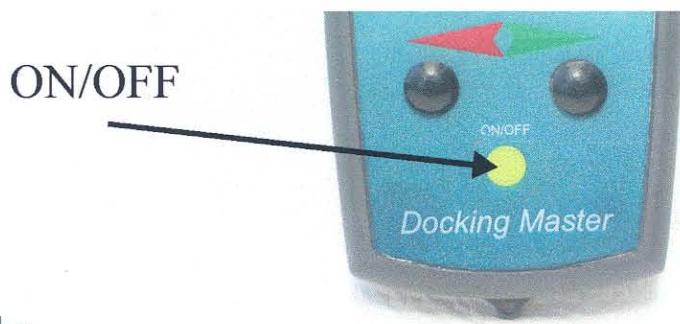


Main Functional Description

Docking Master is a wireless system that allows direct control over all principals motors in the vessel. Electronically it works sending a unique coding signal, manually generated in the hand transmitter (909MHz). This RF burst is then send in a basic FSK modulation over the air then pick up by the receiver. It has to recognize the data using a digital decoder working in a bandwidth of 50 KHz. At this time will start a signal transfer (if the data is correct and complete) to the main controller. This last component in the chain also handled all timing situation involving motors delays and protection circuits.

Turning “ON/OFF” the device

To turn on the device on the user must press the yellow button (ON/OFF) for about two (2) second (see picture) until the yellow LED light up. The same procedure has to be performed to turn the device off. This design has incorporated a timer which will shut off the transmitter after five (5) minutes of no keyboard operation.



Entering in Test mode

When pressing A, B & ON-OFF button at the same time at least for three (3) second (see picture) the unit will enter in Test mode. In this mode the Transmitter will send a continuous stream of data at 10K bit rate and the shut off fixture will be disconnected.

