

INTRODUCTION

MOBi is a transponder man overboard system for use on leisure craft. It

can monitor up to eight crew members giving an audible and visual warning if any crew member's signal is lost.

Each crew member is equipped with a waterproof battery powered MOBi fob. This can be clipped to a belt or slipped into a pocket. The display unit sequentially interrogates each MOBi fob and receives its acknowledgement.

If the fob fails to acknowledge after ten attempts then the alarm signal (drowning man symbol) is displayed adjacent to the appropriate user name and an audible alarm will sound.

INSTALLING THE DISPLAY

The MOBi display unit is not waterproof and should only be cabin mounted. Select a convenient position for the display on a panel or bulkhead. The site must be flat and the cavity behind the panel must remain dry at all times. Cut a hole in the panel 103mm by 143mm wide. (The cut out in the cardboard package can be used as a template.)

Unscrew the wing nut from the rear of the display unit and take off the mounting clamp. Fit the "O" ringing the groove on the rear and place the unit in the hole in the panel. Refit the mounting clamp and replace and finger tighten the wing nut.

Alternatively the unit can be mounted on a cradle available from nasamarine.com.

Plug the power cable into the socket at the rear of the display and connect to the 12volt supply. (The red wire to positive and the wire with the black stripe to negative.) Mount the alarm in a convenient position and plug the alarm connector into the socket at the rear of the display. Finally, tape the antenna wire to a bulkhead so that it is substantially vertical.

INITIALISING THE MOBi FOBS.

(Note, for your convenience this unit is supplied with batteries fitted and PIN number _____ already installed.)

When in operation each MOBi fob responds to a four digit PIN number. The installation procedure allows you to select your own unique PIN number and transmit it to each fob in turn.

Connect power to the MOBi display unit to view the standby display screen. (Press the CANCEL key, if necessary, then press the STANDBY key to get to the standby screen.) To set the Pin number or

enter a crew member's name you must enter the system BIOS. This is done by a long press on the BIOS key, releasing the key when the word OK is displayed.

From this screen you can exit bios by pressing DONE, adjust the contrast by pressing DISPLAY, enter your own unique PIN number by pressing

SET PIN or continue the installation process by pressing NEXT.

Press the SET PIN button to get the "SELECT NEW PIN" screen. . Press UP or DOWN to raise or lower the highlighted digit then press NEXT PIN to move to the next digit. (Note 0000 is not an allowed PIN number.) After setting your PIN number press DONE to exit that screen. Your PIN number is now stored in the MOBi display unit. The next stage is to send your PIN number to all the fobs you intend to use.

Have all the fobs available within a metre of the display unit. Have

the batteries fitted and the back covers removed. Press the NEXT button for to get the "NEXT STAGE" screen. Then press BEGIN on the display unit and carefully follow the five steps on the screen.

(1) Peel off label number one from the sheet supplied and stick it into the recess below the main label on any one of the fobs.

(2) and (3) The SET KEY is located in the rear of the fob just below the battery pack and is activated by pressing it until the LED on the fob lights up.

(4) Press the SEND key on the display unit to transmit the PIN number to the fob.

(5) The LED will flash eight times to confirm the fob has received the PIN number and identified itself as fob number one. The fob will then automatically turn itself off.

Press NEXT on the display unit and repeat the process with fob number two and so on until all your fobs have been programmed.

At any time in the above process the fob user's name, which will appear by the fob number on the normal display screen, can be edited.

For any selected fob press EDIT. The current name for that fob user is displayed at the top of the screen and can be edited in a manner similar to texting on a mobile phone. The UP and DOWN keys move the

highlight through the blocks of letters. To select a letter, move the highlight to the block containing that letter and quickly press OK one, two or three times corresponding to the letter's position in the block. For example suppose you want the letter "F". Using the UP and DOWN keys move the highlight to the "DEF" block then quickly press OK three times to get the third letter in the block. To delete letters use the "Del" character and to create a space use the "Sp" character. When a name has been completed press DONE to return to the program screen. From here pressing NEXT will allow you to EDIT the next fob or pressing EXIT will return to the setup screen.

USING THE MOBi.

After exiting from the fob initialisation procedure you enter the setup screen. This allows you to select the fobs you want to monitor and get crew members to turn on their respective fobs before the alarm is made active. To turn on a fob press and hold the drowning man key on the fob of about one second until the LED lights up. The light will then flash once every second showing it is responding to the display unit's interrogation.

The selected fobs will show in their respective status boxes (Far right hand column.) All fobs selected to be monitored will say ON, those not selected will say OFF. You can change the selection by moving the cursor in the left hand column using the UP and Down keys then pressing the ON (or OFF) key to change that fob's status.

As each crew member turns his fob on it will register in the second column from the right as FOB OK. Wait until all selected fobs show FOB OK then press OK to begin active monitoring. A signal strength bar will be shown for each fob in operation. The length of this bar is a measure of the signal strength from each fob. If the bar falls below the threshold level (The vertical dotted line.) then the signal is considered as lost and the status box will display numbers counting down from 10 to 1 indicating the number of further attempts the unit will make to contact the fob before displaying the drowning man symbol and sounding the audible alarm.

If, during an alarm sounding, the signal is restored the alert will self cancel and return to normal operation. If the alarm does not self cancel then it can be cancelled manually by pressing either of the CANCEL keys. The alarm will then be silenced and the exclamation symbol (!!!!!) will be displayed in the relevant status box.

As a failsafe precaution if there is a brief interruption in the power supply to the MOBi display unit (When starting an engine or switching over batteries etc.) then the unit will return to active monitoring when the supply is fully restored. If you don't want the unit to restart in active mode (e.g. When the unit is no longer in use.) then put it into standby by pressing the STANDBY key.

Power to the fobs can be turned off, thereby activating the alarm, by pressing and holding the drowning man key on the fob for about one second until the LED lights up. The LED will flash three times and the fob will turn itself off. In practice it is not necessary to turn off the fobs (Unless a user wishes to manually activate the alarm.) as the fob will automatically turn itself off about two minutes after the MOBi display power is turned off.

HOW TO USE THE MOBi FOB.

The fob can be clipped to a belt or slipped into a suitable pocket. The alarm will be activated when the MOBi display fails to get a response from a MOBi fob. This will occur if the fob is out of range of the display unit or the fob signal is attenuated by being in the water. It is advisable that the fob be carried in a position that would enter the water should a crew member fall overboard. This will ensure that the signal is lost quickly and shorten the time to the alarm being sounded.

REPLACING THE MOBi FOB BATTERIES.

MOBi fobs are powered by three AAA cells. These can be zinc carbon, alkaline, nickel metal hydride or nicad, though different cells should not be mixed in the same fob. The battery life depends on the type of battery used. A typical life expectancy being two weeks of 24/7 use or about two years in standby. To prevent battery deterioration or leakage it is recommended that batteries be replaced at intervals no greater than one year. When replacing the back cover ensure that the "o" ring seal is in place (With its overlap at the bottom.) and the four screws are fitted with sealing rings and properly tightened.

If a fob fails to respond to interrogation because of exhausted batteries then the alarm will sound.

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