

ALERT

The 'ALERT' button is placed in the hook:



Press 'ALERT' for 3 seconds

to start the following sequence:

1. A call for Iridium's® special service will be issued from the Iridium terminal, even if another user has occupied the line.
2. Any other user of the Iridium system onboard will be cut off immediately.
3. The display will show 'ALERT'.
4. The Iridium Network will route your call to the nearest Rescue Coordination Centre.
5. Valid subscription status is mandatory. If the user is in debt and the account is barred, "ALERT" will not work.

Inform the RCC of:

1. Your name.
2. The identity of the vessel originating the call.
3. If possible, your position.
4. The reason for the call.
5. What needs to be done

IMPORTANT!

Even though a GPS can be connected to the unit, pressing 'ALERT' will NOT automatically transmit your GPS-based position.

Future GMDSS Approval

'ALERT' will connect you directly to a Rescue Coordination Centre because the Iridium system as such has agreements with all separate RCC's. In Japanese A1 and A2 areas Iridium has gained acknowledgement as a GMDSS partner. When Iridium gains its global GMDSS approval, which is expected to take place in 2003, you can have your equipment rebuilt so as to:

- download new software enabling GMDSS distress calls and automatic transmission of a GPS-based position, and
- replace the yellow 'ALERT' button by a red 'DISTRESS' button.

Furthermore, a new operator's manual will be issued including a description of the 'DISTRESS' functionality.



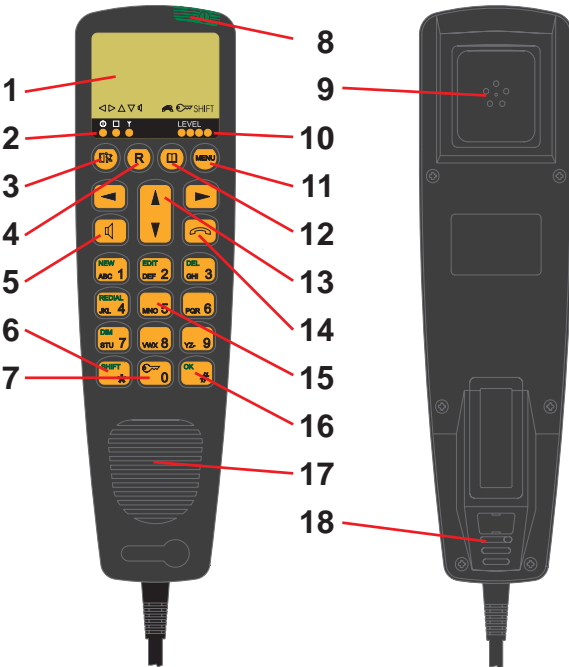
SAILOR SC4150

Operating Instructions

Alert Call, see page ii. List of contents, see page 1.

Handset

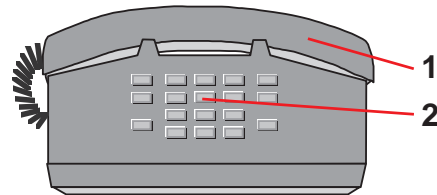
What Is What?



- | | |
|---------------------------|------------------------|
| 1. Display | 9. Earpiece |
| 2. Indicator lamps | 10. Signal level |
| ⓘ Power | 11. Opens menu |
| ☐ Call | 12. Opens address book |
| Y In use | 13. Volume control |
| 3. Escape key | 14. Hook on/off key |
| 4. Call transfer key | 15. Keypad |
| 5. Loudspeaker on/off key | 16. OK key |
| 6. Shift key | 17. Loudspeaker |
| 7. Lock on/off key | 18. Microphone |
| (not yet implemented) | 19. ALERT button |
| 8. On/off button | |

Telephone

What Is What?



- 1. Handset
- 2. Keypad

Introduction

Congratulations on your new Iridium handset or PSTN (Public Switched Telephone Network) telephone.

Your Iridium system is a modular system that consists of an antenna, transmitter/receiver, handset and/or desk unit, and optional PSTN telephone/PBX (Private Branch Exchange) switchboard.

You can operate the Iridium system in voice mode from a handset, desk unit, and/or PSTN telephone. To the system you can connect up to five handsets or desk units **and** one PSTN telephone or PBX switchboard.

Sailor marine equipment is specially designed for the extremely rugged conditions on board a ship, based on more than 50 years of experience with all kinds of boats, from small pleasure crafts, over fishing boats working under all climatic conditions, to the biggest ships.

S.P. Radio A/S is one of Europe's leading manufacturers of maritime radio communication equipment, a position which has been maintained by means of constant and extensive product development. We have a worldwide network of dealers with general agencies in more than fifty countries. All our dealers are specially trained to service all your Sailor products.

About this Manual

This manual is for the daily user of the system.

It provides instructions on how to operate both a telephone and a handset.

Basically, the manual consists of two main parts: The first deals with **simple** operation, which includes e.g. making and answering calls. The second part describes the more **advanced** functions of the system.

We recommended that you read the manual before using the equipment.

Please note

Any responsibility or liability for loss or damage in connection with the use of this product and the accompanying documentation is disclaimed. The information in this manual is furnished for informational use only, is subject to change without notice, may contain errors or inaccuracies, and represents no commitment whatsoever. This agreement is governed by the laws of Denmark.

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Iridium Satellite System

Iridium is a global satellite network for telecommunications. It consists of 66 satellites providing world-wide coverage.

The Iridium system makes it possible for any two locations on Earth to establish wireless global telephone contact.

Using a Telephone

To the Iridium system, you can connect a PBX switchboard or a PSTN telephone. When using a telephone, many of the system's more advanced features, like e.g. the security lock function, are not accessible.

Telephone call syntax

For external calls, entering a telephone number on a PSTN telephone follows the syntax of this example:

1. External call

0

0

2. Prefix for automatic call

0 0

0

0

3. Country code, e.g.

4 5

4 GHI

5 JKL

4. Area code, e.g.

7 0

7 PQRS

0

5. Subscriber's number, e.g.

1 3 7 0 0 0

1

3 DEF

7 PQRS

0

0

0

6. Confirmation

#

#

For **internal calls**, entering a telephone number on a PSTN telephone follows the syntax of this example:

1. Internal number, e.g.

3 4 4

3 DEF

4 GHI

4 GHI

2. Confirmation

#

#

Making a Call

1. Lift the phone and listen for the tone signalling:

Busy tone: Hang up and try again later.

Ready tone: The telephone is ready for calling.

2. Enter the wanted number, including the prefix for external call, prefix for automatic call, country code, and area code. An example of a Danish subscriber:

0 0 0 4 5 7 0 1 3 7 0 0 0

0 0 0 4 GHI 5 JKL 7 PQRS 0

1 3 DEF 7 PQRS 0 0 0

3. To confirm you want to make the call, press: #

#

4. Wait for your call to be answered.

Answering a Call

is done exactly as if it was an ordinary telephone call: Pick up the phone and answer the call.

Handset Simple Operation

To the Iridium system you can connect up to five handsets.
A handset can be in one of two states: active or disabled.

Handset States

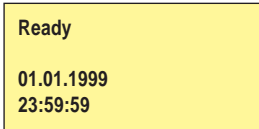
In each of the two states, the handset's normal display and signalling can be described as follows:

Disabled State:

- The display is cleared and the light is off.
- The indicator lamp **on/off** is flashing briefly every 5 seconds.

Active State:

- In the active state, the user can choose the information shown on the display. An example:



- The indicator lamp **on/off** is on.

Handset on/off

To turn the handset on/off:

1. Press and hold the on/off button.
2. Wait until you hear the continuous tone signalling or see that the indicator lamps **on/off**, call and **in use** are turned on simultaneously.
3. Release the on/off button.



Call Functions

Speaker, Earpiece and Microphone

The earpiece is always turned on. The speaker and microphone are always in opposite states, i.e. if the speaker is on, the microphone is off, and vice versa.


You can toggle the speaker and microphone states by means of the speaker key. The speaker icon appears on the display when the speaker is on, and disappears when the microphone is on.



Hooking on/off

Before a call can be initiated, the handset must be hooked off. To do so, either remove the handset from the hook or use the on/off-hook key.

The handset icon on the display shows whether the handset has been hooked on or off.

Hook on 

Hook off 

Volume

During a conversation, the speaker and earpiece volume can be adjusted by means of:



Manual Telephone Call Syntax

For **external calls**, entering a telephone number on the handset follows the syntax of this example:

- | | |
|------------------------------|-----|
| 1. External call | 0 |
| 2. Prefix for automatic call | 0 0 |
| 3. Country code, e.g. | 4 5 |



4. Area code, e.g.

7 0



5. Subscriber's number, e.g. 1 3 7 0 0 0



6. Confirmation

#



For **internal calls**, entering a telephone number on the handset follows the syntax of this example:

1. Internal number, e.g.

3 4 4



2. Confirmation

#



Making a Manual Call

1. Hook off the handset.

If the system is **occupied**, a busy tone is heard in the earpiece/speaker, and the display shows e.g.:

Line busy

If the system is **ready** to make a call, a ready tone is heard in the earpiece/speaker, and the display shows:

Enter number

Type 0 for
ext. calls

or

Enter number

Internal
calls only

2. Use the numeric keys to key in the number you want to dial.

For external calls, key: 0



To delete the previous digit, press:



An example:

Enter number
0 0 0 4 5 7 0 1 3 7 0 0
0 _

3. Confirm the call and start dialling by pressing:



4. A calling tone is heard from the earpiece/speaker, and the display shows:

Connecting

5. When the connection has been established, the display shows:

Connected to
0 0 0 4 5 7 0 1 3 7 0 0
0 _

6. When one of the parties communicating hooks on, the display asks the other user to do the same:

Call
terminated

Answering a Call

1. When the handset rings, remove it from the hook and communicate as on an ordinary telephone.
2. Adjust the volume in the earpiece or loudspeaker by means of:



3. When you want to stop communicating, or when you hear a busy tone, hang up.

Handset Advanced Operation

The system features a great number of special functions. For those of the functions that are likely to be used the most, there are special buttons or shifted functions in connection with the numeric keys. The functions used less often can be found in the menu tree.

Address Book

The address book offers the following facilities:

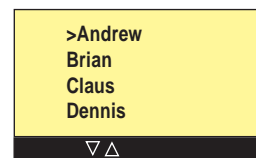
- Up to 100 entries including names and numbers can be stored. A telephone number may consist of up to 20 digits, and a name may contain a maximum of 11 characters.
- Any of the 100 stored telephone numbers can be used to initiate a call.
- Each entry in the address book can be deleted.
- New entries can be added to the address book as long as some of the 100 entries are free.
- The name and/or number stored in every entry can be changed.
- The stored entries can be searched alphabetically.

Searching the Address Book

When you need to find a stored entry, first open the address book by pressing:



The display then shows a list beginning with the first entry in the address book:



To find previous/following entries, use:



When you have reached the last entry, the address book begins from number one again.

Changing a Number Stored in Address Book

To edit a stored number in the address book:

1. To enter the address book, press:



2. To select the wanted entry in the address book, press:



3. To enter the shifted functions, press:



4. To select the edit mode, press:



5. Key in the name that corresponds to the number.

6. To store the name, press:



7. Key in the number by means of the numeric keys.

8. To store the new number, press:



Storing a New Entry in Address Book

To store a new entry (name and number) in the address book:

1. To enter the address book, press:



2. To enter the shifted functions, press:



3. To select the new mode, press:



4. Key in the name that corresponds to the number.

5. To store the name, press:



6. Key in the number by means of the numeric keys.

7. To store the number, press:



Deleting a Stored Entry in Address Book

1. To enter the address book, press:



2. To select the wanted entry in the address book, press:



3. To enter the shifted functions, press:



4. To select the delete mode, press:



5. To delete the selected entry, press:



Calling a Number from Address Book

To call a number stored in the address book:

1. To enter the address book, press:



2. To select the wanted entry in the address book, press:



3. To start the call:
• Lift the handset
or

• Press:



A ringing tone is now heard from the handset. To go on with the call, follow the steps described in connection with “Making a manual call”, beginning with step 3.

Redialling

When ready to enter a telephone number:

- 1. Hook off the handset.
- 2. Press:
- 3. Press:
- 4. To initiate the call, press:



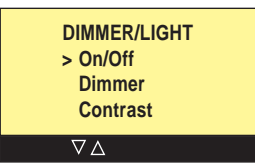
A ringing tone is now heard from the handset. To go on with the call, follow the steps described in connection with "Making a manual call", beginning with step 4.

Setting Dimmer and Contrast

To adjust the background light and the contrast level, first press the two keys:



The **dimmer/light** menu appears:



Now, move to the desired item – **dimmer** or **contrast** – by means of:



Then, to select the item, press:



To enable or disable the light, select the **on/off** item.
To adjust the dimmer level, select the **dimmer** item.
To adjust the contrast level, select the **contrast** item.

An example:

When you select dimmer in the **dimmer/light** menu, the display shows the dimmer menu:



To increase or decrease the dimmer level, use:



For the changes to take effect, press:



Tone Signalling

The system will give you information on its status as well as instructions by means of tone signalling. This is done on four different frequencies: 450, 900, 1440 and 1800 Hz. Appendix A illustrates what the various tone signalling sounds like.

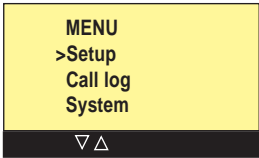
Menus

The handset contains several functions for changing the system settings, showing the status of some system parameters, configurations, and testing the system.

To enter the function menu system, press the following two keys:



The function menus appear:



The set-up menu contains all functions for changing the system parameters, such as volume, ringing tone, language, user names and passwords.

The call log menu contains information on each call made, including details about when the call was made, its duration, and the receiver's telephone number.

The system menu contains all functions needed for the system administrator/super user to test and configure the system.

The following table contains a total list of the entries in the function menu system.

Function Overview

To access this menu, press:



Menu	1st submenu	2nd submenu	Action
Setup	Ringing tone	Deep	Sets ringing tone to deep
		High	Sets ringing tone to high
		Slow alt.	Sets ringing tone to slow alternating
		Fast alt.	Sets ringing tone to fast alternating
	Ring vol.		Sets ringing volume
	Speaker vol.		Sets speaker volume
	Key beep		Sets key beep volume
	Language	English	Sets language to English
		Danish	Sets language to Danish
	Extension	Number	Selects the extension number of the current CU
		Name	Selects the extension name of the current CU
	Display	Time/date	Displays time and date when the CU is idle
		Status only	Displays only the terminal states when the CU is idle
Call log			Views the log of all outgoing calls
System	SW versions	Transceiver	Displays the RTU's software version number
		LBT	Displays the LBT's software version number
		Ctrl. unit	Displays the control unit's software version number

Dimmer Menu

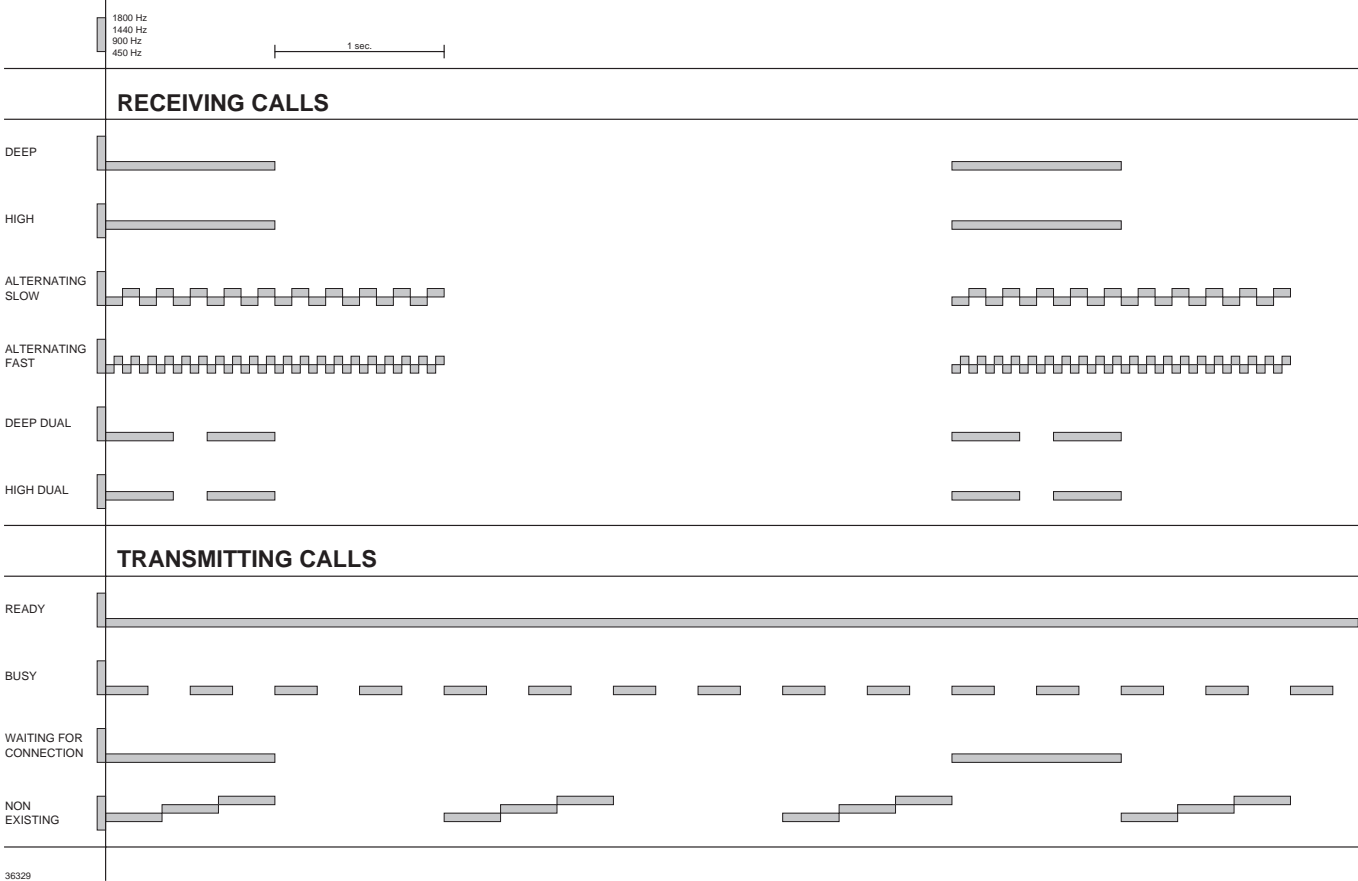
To access this menu, press:



Menu	1st submenu	2nd submenu	Action
Dimmer			Adjusts the level of display back light
Contrast			Adjusts the display's contrast

Appendix A

Tone Signalling



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