USER MANUAL

System

Divansi ®

MOB

MOB_ENT

Version : 04.02/12

DAHMAS certificat number :
26503/A0 MMF

seareka ®

Seareka Sas
Capital 37 000 Euro
SIRET : 50080745800012 RCS Lyon
Headquarters : Building HERMES
Locality of Garon D386/D117
145, Route de Millery
69700 MONTAGNY FRANCE

Authorized Distributor :

Destination product

He was recalled to the user, the system is intended to be a professional audience in the field of water activities, or to an audience of amateurs who have received the necessary training, corresponding to water activities they intend to operate.

Each user must in all cases to behave in line with those activities.

This system is not intended to replace the safety instructions, local regulations and usual that it is essential to respect.

This system aims to improve the localization of those fallen in the sea The transmission of information with this system allows the location with varying degrees of accuracy and speed of those concerned and this also depending on the number of ships equipped and compatible present in the zone.

This system is not a safety system or warning and does not aim to prevent incidents and accidents of any nature whatsoever.

This system does not replace other systems or locating means, security or transmission of information normally used by application of the rules of use within the profession, or activity concerned recommendations or existing within the profession or activity in question, either because of legal or regulatory requirements.

The user agrees not to make a different use of any kind whatsoever and must ensure that its employees comply with this obligation. In this case, the operator shall be sole responsibility.

Important caveats

The user must read the following conditions before implementing the system or one of its tags. It is therefore important to read carefully and thoroughly this manual before implementation.

The mounting system:
> Refer to the manual

The installation of the system must be performed by a certified technician. You will find the list with Seareka. The system will be functional if the installation is performed as described in this manual.

During the first start-up, a test of all the system component is required.

The beacon is considered automatic when installed on a inflatable life vest specifically fitted by a qualified technician. Otherwise, it is manually triggered. Any radio interference, in the same frequency band, around the antenna can reduce system efficiency.

The indicator of ambient noise in navigation mode indicates information in real time, on the level of radio noise in the area.
This is the case if this value is less than -70 dBm consistently. (p 22 index3)

The user must take into account the presence on board of other electronic systems and their possible incompatibility due to transmission.

Some people may have a medical conflict with the Seareka system, including those fitted with a pacemaker or cardiac implant. Potential interactions may occur with pacemakers, however, they are transient and clinically insignificant and have no consequences on the functioning of pacemakers in general. However, it is strongly recommended that persons in these situations to consult a doctor before use.

THE BEACON AUTOTEST MUST BE DONE
EVERY 6 MONTHS TO CHECK THEM GOOD OPERATION.

Fill booklet p43.

TABLE OF CONTENTS

WHAT IS THE DIVANSI ® MOB SYSTEM

System Divansi ® is a communication network for:
- The alert and location of man overboard (MOB)
- Positioning of surface objects (TRACK).

Divansi ® MOB is intended for the detection and localization of a Man in The Sea (Man OverBoard: MOB).

Functional innovation Divansi ® MOB, the model «Man Overboard» (Man OverBoard):

1. Beacon automatically triggered when it is integrated into a pfd.

2. Tracking and positioning GPS 4km up to an antenna at a minimum height of 4m.

3. Intuitive search interface with support guide on screen (distance, time etc..) And arrow indicating the direction of the man overboard

4. Simultaneous monitoring of 30 Beacon.

Operating principle
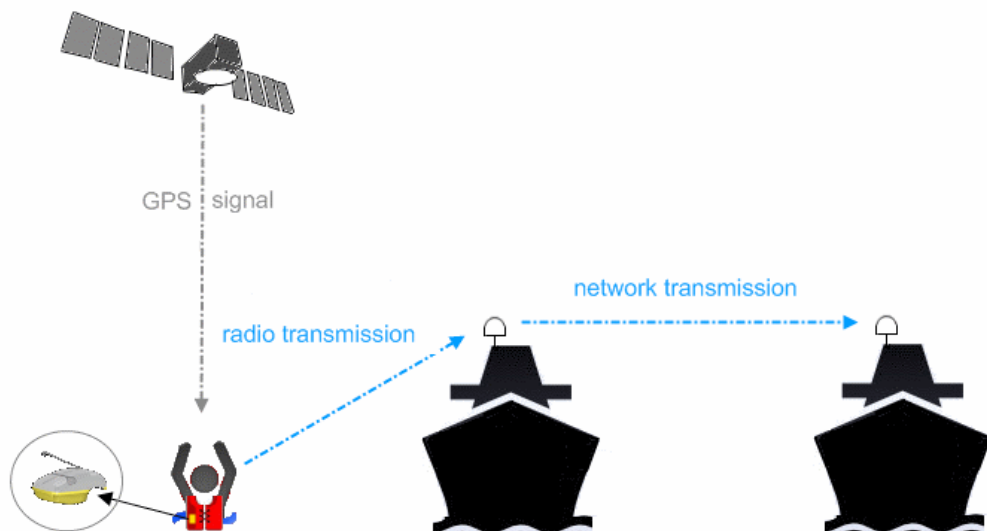
Composition of your kit Divansi®MOB

*Pictures are not contractual, the models presented may change depending on availability.

1. Antenna : A white dome, a turntable for supporting 1" x1/4» and cable.

2. Console : A console with bracket. Two thumbscrews. Two sealing plugs

3.Beacon (Sold separately): Red and transparent security. A pin red alarm. A clip with screws provided.

4. Alert button (optional): Alarm punch.

5. 5. Audible alarm and bright (Sold separately)

6. Câble : Power cable 2m with connector (IP68). It also integrates the connection of the external siren, the Alert button (punch) and a serial output.

7. User Manuel

INSTALLATION

Dôme Antenna Divansi ® MOB AV17

The antenna is the essential organ of communication between beacons and boats.It allows to receive radio signals from beacons MOB, to transfer to the console and return them to other boats. it integrates a GPS positioning, a compass and a radio module.

It consists of:

1. A dome screwed and sealed with a platinum a mounting bracket (1" x14 filletage standard).

2. A connecting cable to the console Divansi MOB (connector «ANT»).

Installation :

▪ Mount the antenna vertically on the outside as high as possible on board vessel in order to have the highest radio range. (Lengthen the cable if necessary)

▪ Turn it so that the output of the cable is oriented port side of the boat.

▪ Remove from metal structures (minimum 1m from another antenna).
Visibility of 225°, with no blind spot, centered on the back of vessel.

a total angle of visibility on the horizon of at least 355o.

▪ Connect the antenna to the console.

▪ It is necessary, after installation to calibrate the magnetic compass (see Console settings).

Safe distance compasses CF45

Console Edge Divansi ® MOB SV82N

Console warning and gave the crew the direction to take in to MOB upon activation of a beacon.

1. Console
Waterproof, it can be found both indoors and outdoors (IP68).

2. Red button
It can trigger an alert MOB (long 3s).

3. Pushbutton black
Multifunctional, it can access the menu, perform a self-test,
Acknowledge an alarm.

4. Buzzer.
Sound alert.

5. Monochrome screen
It displays navigation information and location of the beacon.
It is readable both day and night thanks to its backlight.

1. A connector called «ANT»

Waterproof IP68 (with plug) to connect the antenna cable Dome ® Divansi MOB.

2. A connector called «BATT»

Waterproof IP68, (with plug) connect the power cable, with one output for the switch "Punch" to an external device, such as the audible alarm and light and a serial port.

Installation :

▪ Close to the cockpit of the ship, the console should be front of the navigator. The top of the screen represents the bow

▪ For ships of significant size, it is preferable that the antenna Divansi MOB is located above the edge console for the information displayed distance and course to steer to be more precise

The console panel can be fixed in 2 ways:

1. Embedded in the console:

Please cut your desk with dimensions l.128xh.92

a. Cut the bracket to length so that it can flatten

b. Screw the caliper at the rear of the console using two screws 40mm provided

30mm+x
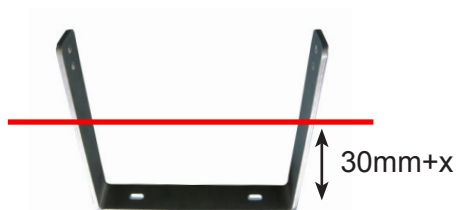
minimum 30mm + thickness of the panel
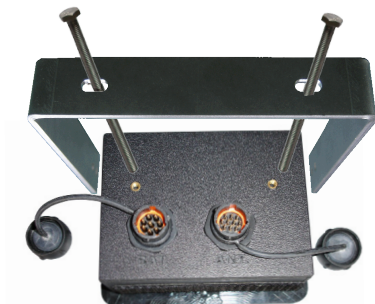
2. Mounted on its support bracket:

Connection:

Base «ANT»: To connect the cable of the Antenna Dome ® Divansi MOB (8 pins).
Base «BAT»: To connect to the power cable (10 pins).

Son tracking power cable:

Blue (-) et Red (+) : DC voltage source (battery, power board) of 8V to 30V 500mA max (provide security and thermal switch series).

Brown and Blue: external switch alarm MOB (to trigger the opening).

Gray and Pink : dry contact outputs for alarm and external light or tracer (2A-30VDC max).
[1] The contact is open by default, closes immediately in the event of MOB or MOB external for an adjustable duration (time relay). However in case of alarm beacon contact closure may be delayed in order to manage false alarms (delays relay).

Green (-) and Yellow (+) TX serial output (RS422)
Blanc (+): RX serial input (RS422).

Blanking plugs provided must always be on bases when they are not connected to their respective cables.

⚠️   **The dry contact may not cause, an automatic, change of pace propulsion or drive, in case of MOB.**
However, it can automatically control the shutdown of the propulsion

Safe distance compasses CF45

Beacon Divansi ® MOB BV12

The beacon allows individual Divansi ® MOB alert and position a person fell to the sea
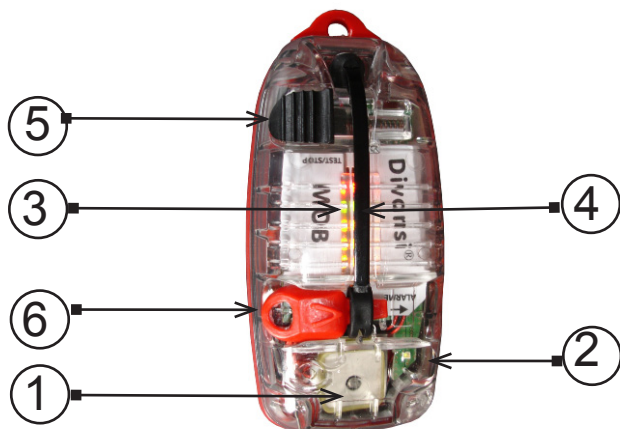
1. GPS
Allows the positioning of the tag.
2. Flash lamp (LED)
Allows visual identification.
3. Colored lights (Beacon status).
4. A radio antenna
Automatic deployment (transmitting the coordinates via the network MOB DIVANSI ®).
5. A black button
Allows user to activate self-test and the judgment of the tag.
6. A red pin
Allows activation of the alert.

Also contains:
- A belt clip.
- A non-rechargeable battery Li-ion.

Installation :

- **The beacon should be integrated into a Divansi approved life vest.**
Activation of the beacon is performed during inflation of a lifejacket. This
solution eliminates false alarms.

⚠️ **For proper operation of the beacon and GPS, the antenna must be
cleared of any metal surface and out of water.**

Safe distance compasses CF45

OPERATION

Before all uses of the system, you should make sure to have previously followed the instructions of facilities.

During the initial commissioning test of all system components, Beacon, console and antenna technique is mandatory.

CONSOLE

1. Home screen:

STATUS 01 - After starting the Console, the Welcome screen appears and the binding assay is performed Console antenna.
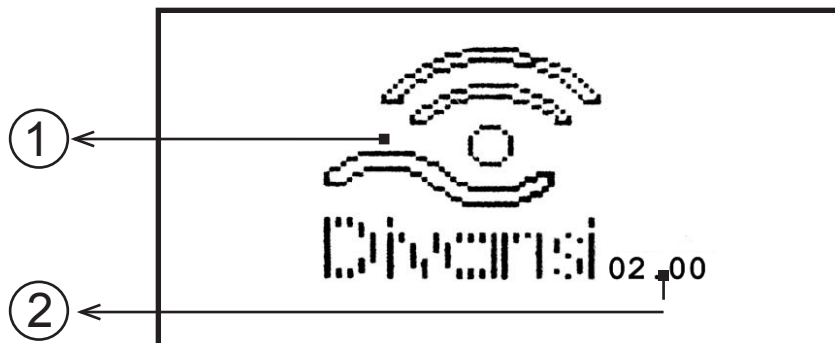
STATUS 02 - If it is operational in the state it passes below. In If not, try restarting the whole.

1. LOGO : It indicates that the system is operational

2. Console Version : 2.00

3. «Config» allow you to enter the Setup Menu by pressing the red button MOB (Menu1 extended)

2. Setting:

Access to the menu can be done either when viewing the screen ETAT 02 Home (previous chapter) by pressing the button MOB to access the Menu1 to (extended) or by pressing for 2 seconds on the black button following in the navigation window Menu2 (user).
The window below appears and allows you to access the different settings

```
┌─────────────────────────────┐
│ ▌▐  BRIGHTNESS  ▐▌          │
│        CONTRAST             │
│      ARRIVAL ALARM          │
│     GPS COORDINATES         │
│ ▎ Select.            Next ▾ │
└─────────────────────────────┘
```
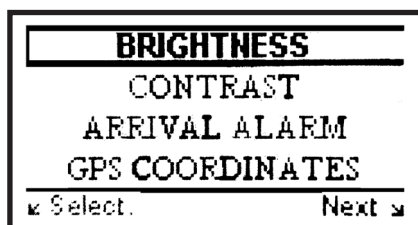
Press the black button «suiv» to select the type of setting you want. The selected topic appears on the first line in bold.

To confirm your choice press the red button MOB.

It is possible to perform a rapid sequence of topics still pressing the button below.

To exit the menu:

- Select Quit from the menu
- Wait 10 seconds (automatic output)
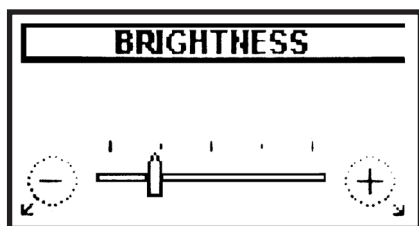
BRIGHTNESS

Press the red button (-)
or the black button (+) to
adjust the brightness

Wait 10 seconds to return to menu
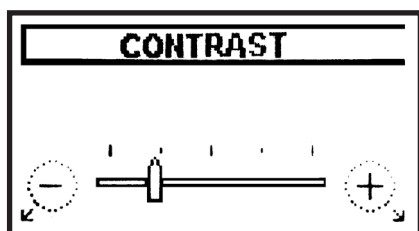
CONTRAST

Press the red button (-)
or the black button (+) to
adjust the contrast

Wait 10 seconds to return to menu

ARRIVAL ALARM

100 m
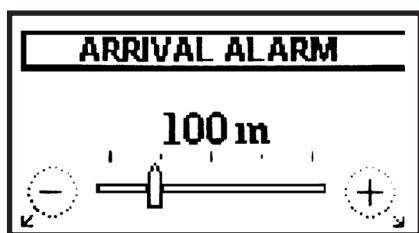
It is a sound indication pointing out the nearness of the beacon MOB at shown distance.

Press the red button (-)
or the black button (+) to
adjust the approach alarme

Wait 10 seconds to return to menu

GPS COORDINATES

second 00°00'00"

thousandth 00°00.000'

Select.   Next
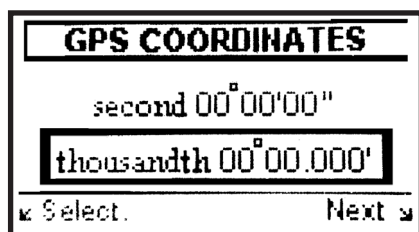
Press the black buton (next) for choose et press the red bouton (select) for validate and go back to the menu.
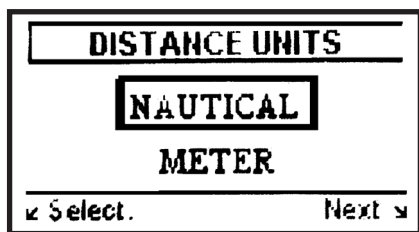
Press the black button for choose the unit : meter or Nautical Miles. Press the red button to validate and exit

Wait 10 seconds to return to menu
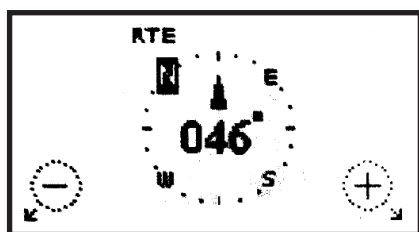
When stopped, the direction of the ship in comparison with MOB is pointed out by a magnetic compass. The adjustment of this one is made as stated below
Press the red button (-)
or the black button (+) to remove or add a degre.

Wait 10 seconds to return to menu
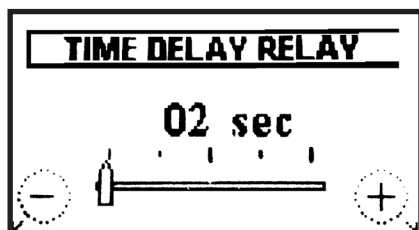
cf. [1] p.14
Press the red button (-)
or the black button (+) to choose the delay before activating the relay.

Wait 10 seconds to return to menu
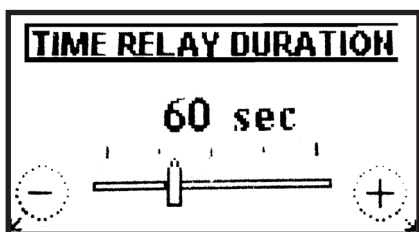
cf. [1] p.14
Press the red button (-)
or the black button (+) to choose the   duration of the relay.

LANGUAGE

FRENCH

ENGLISH

Select.　　　　Next

Press the black button (next) to choose the language. Validate by pressing the red button.

Wait 10 seconds to return to menu

BEACON TABLE

UID　　　　DATE

exit　　　　Next

Allows a control of beacons autotests

Press the black button to scroll. Press the red button to exit.

Press the red button for exit or wait for 10 seconds to go back to the menu

NONE　☐

EXIT

MAXSEA　☐

ARPA　☐

Select.　　　　Next

Press the black button (next) to choose the serial output. Validate by pressing the red button.

TABLE OF MODES

Mode	MOB Beacon ®Divansi	
	Action	Display
Stop	Red Pin Up	All Leds Off
Test	Press 3 times on the Test Button/Stop	Different test stes are identified by beep and Led
W a r n i n g MOB	Extraction of the red pin	-Beep for each issue -Lamp flash every 3 seconds -Radio Broadcast -Noise emission during the outbreak for 3 minutes

Mode	Console	
	Action	**Display**
Navigation	Normal	Speed, position, ship bearing
	Press red button 3 seconds	Display counts down seconds Warning : MOB
	Activation punch button	Warning : MOB EXT
Display the test beacon	3 short presses on black button	"Self-test" pending the result display
	Beacon on self-test launch	Beacon number State radio, GPS, memory, battery synchro
	3 short presses on black button	Reverts to navigation mode
Warning beacon		Continuous beep Display : * Beacon number * GPS location * Distance and bearing to follow
	Briefly press black button	Acquittal alert : * Stop buzzer
		Short beep upon receipt of a beacon message
	Briefly press black button	Display other MOB if multiple alerts
Stop Warning	On radio reception "end warning beacon"	«STOP»
	Long press on black button (5sec)	Expires Beacon Return to navigation mode or on another page alerts

3. Navigation Mode:

The Navigation Mode appears by default after the home screen and / or setting of the system is operational
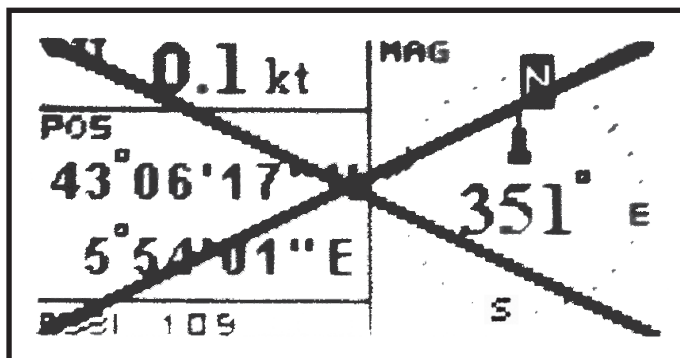
A cross on the navigation screen indicates that the commissioning of the installation was not performed by a certified installer. It appears as a beacon that was not synchronized
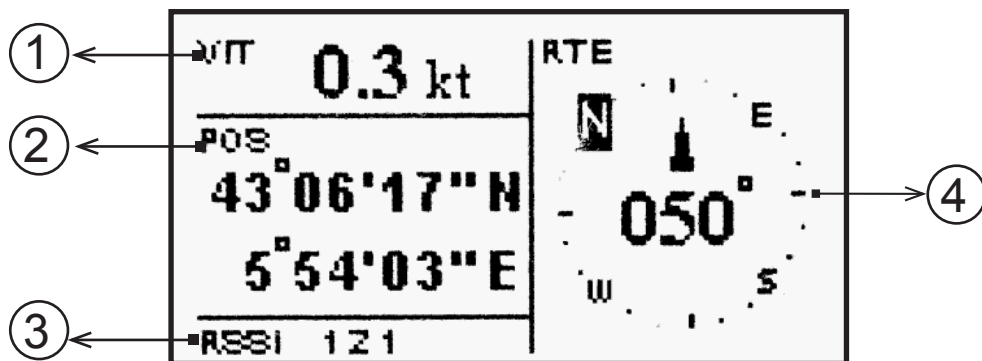
1. Speed in Knots
2. GPS (adjustable unit)
3. Rssi = Ambient Noise Radio
4. Cap and Compass

Access to menu2 (user) is still pressing the black button «next» for 2 seconds when the unit is in navigation mode above.

⚠️ In case of communication problem with the antenna the message ! Antenne! is displayed.

4. Self Test Mode - Sync:

The self-test mode allows: to verify the proper operation of the system Divansi®MOB as a whole (console, antenna and beacon MOB) and manage false alarms by associating the beacon with an antenna

⚠ **Precaution to perform self-test**

- The self-test of the beacon must be performed outdoors and in open field by the person duly authorized (see page 46).
- Before the self-test beacon must not have been stored at a temperature less than 15 degrees.
- The self-test must be done with the console that is on board ship which is assigned the beacon. This is the only condition that manage false alarm.

⚠ **The console must be strictly in self-test mode before testing the beacons**

On the Console:

the nuisance alerts.
Activate this mode by three short presses the black button «next».
Console waits in the Auto test mode.
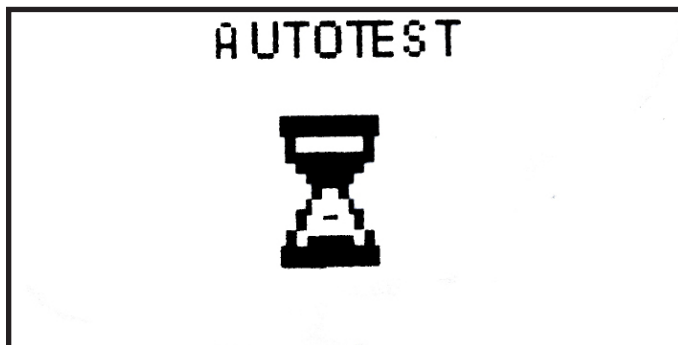
On the Beacon:

Activate this mode by pressing the 3 button black «test» of the Beacon (each support is confirmed by an LED).
Self-Test Mode runs.

Result of the Auto test:

The result of the self-test tested the tag appears. This validates the receipt radio and gives the result of tests. If no result appears, repeat the self-test. If the problem persists contact the Technical service.

⚠️ **The self-test must be carried out one by one. The result of a new self-test, replaces the old**

On the console:

1. ID tag

2. Firmware Version Tag

3. Beacon State.

4. Synchronization with the boat taking the self-test.

5. Access extended mode.

If the beacon is not synchronized to the boat, the sync is in default. for synchronize the beacon, then you must press the red button «MOB» of the console. The field then changes to sync OK as shown below.

synchro: OK

⚠️ **Please note the auto test in the manual on the last page**

5. Alert mode:

This mode can be triggered in three ways:

Activation of a beacon.
Long press button MOB Console.
Pressing punch button
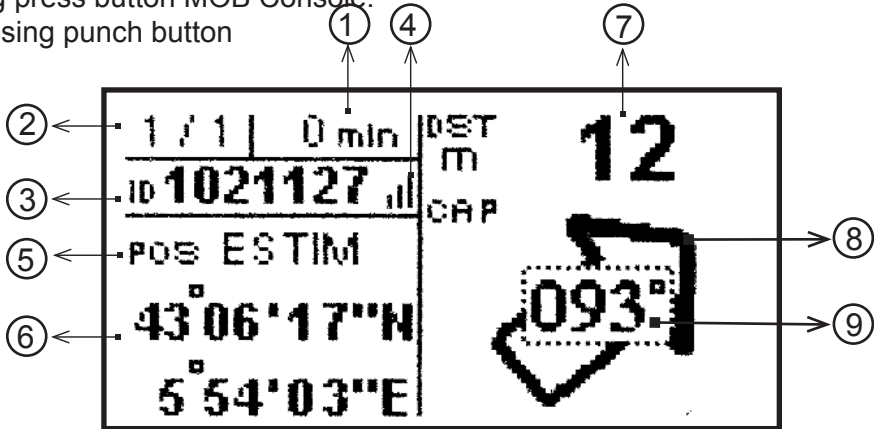
1). 1) Total duration alert since the start of it. The indication STOP can occur following voluntary cessation of Beacon.

⚠️ **This is not the end of warning.**
Follow the procedures for alerting end with the relevant authorities.

2). 1/1 is the number of warning alert.

3). 3) User Information Alert:
ID xxx : With the emergence of a Beacon
MOB : After pressing the Red Button
MOB EXT : Suite in support of Punch Button

`id: MOB`
`id: MOB EXT`

4). 4) Reception level of the received

5). 5) State of the received GPS coordinates:
Estim : Coordinate fall. GPS beacon not stalled.
Fix : Coordinate Beacon. GPS Beacon stalled.
Time appears: counting the time since the last coordinate sets received.

6). GPS coordinates of the Man Overboard

7). Distance from Man Overboard

8). Direction to follow towards the Man Overboard

9). Course to follow to retrieve the Man Overboard

Management of nuisance alerts:

The Divansi ® MOB system, manages the untimely alerts provided that synchronization has been carried out with the ship's console of belonging.
This mode allows you to manage onboard Alerts of a beacon that would have been triggered unnecessarily for a period of 3 minutes. To stop the Untimely alert to the beacon: replace the red pin and press the Black test button. On the console message «STOP» appears.

⚠️**CAUTION beyond 3 minutes the alert is sent to all Divansi network.**

Managing multiple alerts:

The system can handle up Divansi ® MOB 30 alerts. In this case, several pages are created cf. Page 21.

To access the page you want, just keep pressing the button black «next».

Clear Warning:

Select the screen to erase using the black button «Next», then stay supported five seconds on the same button. (A countdown appears)

⚠️
An erased alert is lost

If an alarm «punch button» is triggered and it is not reset message «reset the punch button» appears when erasing.
So just reset the punch button to clear the alarm MOB EXTERNAL

BEACON

1. Standby :

Standby mode is the mode in which beacon is pending a trip. In this mode, LEDs, the Flash and the buzzer are inactive.

The beacon has a lifetime 3 year (Standby with 2 self-tests per year), and can radiate for 12 hours (warning) at a temperature of 20 ° C.

2. Self-test synch mode :

The self-test must be conducted every six months by order of the Captain or any person duly authorized. It must be done in the presence of Console Divansi edge of the vessel attachment.

The test mode, to verify the proper functioning of the system, using LEDs,

buzzer and flash on the beacons, and, the receipt of the message by a display on the screen of the console.

The synchronization of the beacons is automatically with a voluntary action on the console. After performing the self-test, the MOB beacons returns to standby mode automatically
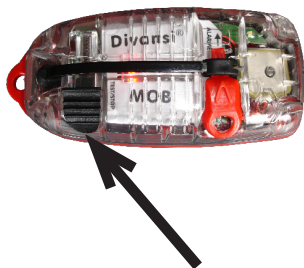
To launch the self-test, press 3 times on the button

When the beacon is in self-test mode, it performs an overall control system.

This is done in three steps:

1st step : Testing the LEDs and the flash.

2nd step : If the beacon is operational it passes directly to step 3. Otherwise, one or several LEDs light steadily for 3 seconds accompanied by a two-tone beep. (See Code Below)

3rd step : The green LED flashes if the tag is synchronized to the boat. Otherwise, the red LED flashes
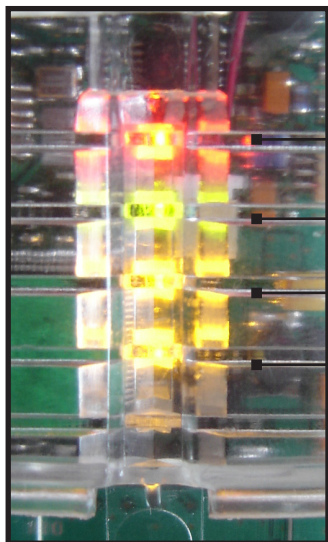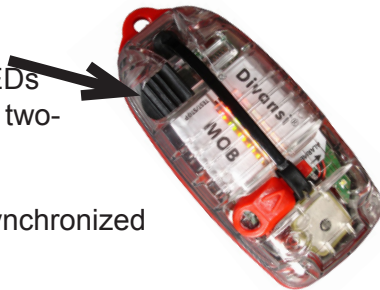
Radio fault

GPS fault

Memorie fault

Batterie fault

In case of battery failure restarts the process several times, (battery de-passivation). If the fault persists, change the battery.

3. Alarm Mode :

Activation of an alarm

The outbreak of the MOB beacon can be :

Manual or by pulling on the red pin alarm.

Is automatic at the opening of theinflatable live
jacket, the alarm pin is removed from its location,
freeing the antenna.
The beacon is then set Alarm mode.

When the tag is in alarm mode, the flash lamp is lit and a
beep sounded indicating the onset for 3 minutes.

**When the tag is not integrated in a pfd, it must be triggered manually.
While floating, it is preferable to a better focused radio, maintaining the
highest possible. Do not put any obstacle in front of the logo DIVANSI
and the radio antenna.**

**Caution! Once the MOB beacon was used (triggered), it cannot
be reused without advice from a certified technician. It is ESSEN-
TIAL that you change the beacon MOB.**

Stopping an alarm:

How to stop Beacon:

The judgment of the MOB beacon is a two manipulations. This to avoid stop-
ping a tag by mistake.

First, lower the antenna and then put the pin in red alarm its original location
by blocking the radio antenna (the V of the pin facing you). Then press and
release the black button «TEST / STOP».
Both manipulations stop issuing the alert and call the radio MOB beacon
standby.
It also issues a message «STOP» will appear on the console.

**This is not end of alarm.
Follow the procedures of warning end with the competent authorities.**

CONDITIONS OF MAINTENANCE AND STORAGE

1. Terms of service :

The user must follow the maintenance requirements of each element of system and in particular after each use, in particular for the part of system located on the «man overboard» and therefore in contact with water.

These maintenance requirements are specific to each system component. The periodicity of this interview and when to intervene must be meticulously observed by the user (regular checking of the level of battery charge).

The user must perform a self-test at least twice a year to ensure the proper functioning of the system and the tag and see the POST well done on the last page (dashboard) provided for this purpose.

The lifetime of the tag depends on its use:

1. If the beacon has been used not even one and only time, it must be unserviceable and returned to its manufacturer or distributor (Use only)
2. If the beacon has never been used, its life is 3 years standby with two self-tests per year from the date written on the box.

After each use, the user must rinse with fresh water at low pressure throughout the material:

1. on the console edge: Please ensure that the two connectors rear are either blocked by their caps or connected to their respective connectors
2. on the beacon of Individual Location: Please be careful especially not to remove the pin Alarm red during rinsing.

The system will function correctly only if installation is performed as described in this manual. It is therefore important to read this manual carefully and completely before use.

Compliance with these conditions is involved directly in maintaining good operation of the system.

2. Conditions storage :

Compliance with these storage conditions is directly involved in good system operation and durability.

The ideal storage temperature is 20 ° C in a dry place and away light rays.

For long term storage, make sure the tag is cleaned, with fresh water (antenna part, the self-test button and pin) to prevent jamming when used

3. The risk for non-compliance :

He reminded the user that any lack of repair or maintenance of any irregularity can cause partial or total failure of the system, the preservation or storage of elements of the system in an environment Inadequate (wetland) may have the same consequences.
 In case of malfunction, repair or intervention of a person with the necessary skills can seriously damage the system and its operation, the owner or custodian of the system then assumes full responsibility.

Only authorized resellers or distributors will intervene SEAREKA in equipment repair.

It is thus reminded, in accordance with the general conditions of sale
 SEAREKA, the hardware warranty does not apply to defects resulting of poor maintenance, improper use, improper repairs, to changes or adjustments on goods sold by persons not authorized by SEAREKA.

TERMS OF REPAIRS AND MAINTENANCE

1. Conditions repairs :

The products delivered by SEAREKA or one of its distributors have a guarantee for a period of one year from the signing of the trial acceptance report. It stops automatically if Customer has not complied its contractual obligation regarding payment without the need a prior notice. It is the same, if the Customer has not complied conditions of repair, maintenance, storage and maintenance contained in this instruction manual and any other conditions necessary the proper functioning of the product.

SEAREKA or one of its authorized distributors guarantees of latent defects the thing sold in terms of Article 1641 of the French Civil Code, subject to be notified by the customer, by registered letter with acknowledgment of receipt within 10 days of discovering the defect, barely foreclosure, and allow SEAREKA or one of its authorized distributors make the requisite findings to address them.

This warranty does not apply to defects in goods delivered whose cause due to mishandling, improper use, improper repairs, modifications or adjustments on goods sold by persons not authorized by SEAREKA.

Responsibility SEAREKA is always limited to replacement of defective products.
Seareka responsibility is clear in the case of improper use.

2. Warranty repairs: :

All repairs, regardless of use conditions, necessitated by an event, due to a demand of SEAREKA or one of its subcontractors or suppliers or any of its authorized distributors, are totally supported by SEAREKA or one of its authorized distributors which will, if necessary, replace the system's expense. The conditions for carrying out these repairs are at the discretion of the company SEAREKA.

3. Non-Warranty repairs: :

All repairs necessitated by an event or a fact not attributable to SEAREKA to society or one of its authorized distributors are charged to the user (examples: fall, faulty installation, misuse, power surge, lack of maintenance, storage conditions, third party intervention, wear...).

It contacts the technical service of SEAREKA at mail address: technical-service@ seareka.com or one of its distributors approved. Seareka provided a preliminary cost estimate taking into account the different travel and any accommodation, an estimate of response time and the technician hourly rate in effect. It is specified any part to be changed will also be charged to the user at the current rate.

Depending on the failure and of the location of the user, it can also be offered the temporary disposal of another system by SEAREKA or one of its authorized distributors and sending the failed system by the user in the local technical services SEAREKA or one of authorized distributor for repair. In this case, the routing system troubleshooting in the user premises is carried out by SEAREKA or one of its authorized distributors who takes responsibility, while that the sending of faulty equipment at the premises of SEAREKA or one of its authorized distributors is in turn organized by the user who assumes the risks.

In all cases, the user pays all charges and expenses of repair and completeness of the cost of transporting both sides. a quote containing the cost of sending SEAREKA or one of its authorized distributors and hourly rate with a technician repair time is estimated release prior to the user.

It is recalled that any repair or intervention by a third party with necessary powers, can seriously damage the system and its operation, the user, owner or custodian system, assumes full responsibility and then loses any guarantee from SEAREKA or one of its distributors approved.

GENERAL INDICATION

1. Waste Management :

When the user does not intend to use the system or when the system or one of its components is permanently removed from service, the user undertakes to contact SEAREKA or one of its authorized distributors so that the latter, is recovered all components at the time of replacing either the user specifies the address to which these components can be sent.

In cases where these solutions are not possible, the user required to reach the center of waste management which it depends for to deposit all the components of the system.

The user must ensure compliance with these regulations on the management electronic waste and that they must be a special treatment. A logo depicting a dustbin is present on the packaging for this purpose

2. User Training :

The user agrees to read in full this manual before using the system.

In case of misunderstanding or difficulties in interpretation of any information contained in this manual, the user can to contact the company SEAREKA, mailing us at: technical.service@seareka.com or one of its authorized distributors.

3. Responsibility SEAREKA :

It is specified that the obligation to SEAREKA or one of its authorized distributors is an obligation of means because the destination system is to contribute to the location of a person without making it systematically exact and infallible and thus to provide further assistance in the location and management of «man overboard».

It is recalled that the user management assistance and location nor is fully effective only if weather conditions, environmental, human, material and other external elements are optimal.

It is also stated to the user that the system is not a system security as such and recalled that he did not aim to avoid incidents or accidents, but it aims to minimize the consequences contributing to a location faster and more accurate «Man overboard.»

Consequently, it cannot and should under no circumstances replace the other security systems commonly used, the user but in no circumstances limit the location or other means of security usually put in place.

4. Fault and liability limits :

As stated in general terms and conditions accepted by the user before the acquisition of the system, in case of total or partial failure of system, the responsibility of SEAREKA or one of its authorized distributors only may be questioned if this fault is a hidden defect intrinsic the system, that is to say a failure to design, construction, assembly or material.

In order to assert his rights, the Customer shall, on pain of forfeiture o fany action in connection therewith, inform SEAREKA or one of its distributors approved, in writing, of the existence of defects within a maximum of ten (10) days of their discovery.

SEAREKA or one of its authorized dealers will repair or replace Product or warranty parts found defective. This warranty also covers the cost of labor. Replacement products or parts defective will not have the effect of extending the duration of the above warranty fixed.
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All malfunctions due to an element or an external response,
SEAREKA or not attributable to one of his servants or any of its distributors approved, are not the responsibility of the latter.

It is also stated to the user, due to the true destination of system described above, in case of questioning the responsibility of SEAREKA, in all cases, it will be incurred only up to the cost of the product.

COORDINATES SEAREKA:

As stated in the user throughout this manual, services SEAREKA society or one of its authorized distributors can be contacted at any time, the coordinates are as follows:

> **Seareka Sas**
> **Capital 37 000 Euros**
> **SIRET : 50080745800012 RCS Lyon**
> **Headquarters : Immeuble HERMES**
> **Locality of Garon D386/D117**
> **145, Route de Millery**
> **69700 MONTAGNY**

For all other information concerning the conditions for marketing or lease of the system or on rates, payment terms, delivery terms, and the user should refer to the purchase order or contract with the company SEAREKA or one of its authorized distributors.

Authorized Distributor :

Dates	Beacon Number	Deadline for the batterie	Results	Allocation	Name	Signature

Dates	Beacon Number	Deadline for the batterie	Results	Allocation	Name	Signature

Dates	Beacon Number	Deadline for the batterie	Results	Allocation	Name	Signature

Dates	Beacon Number	Deadline for the batterie	Results	Affectation	Name	Signature

TECHNICAL SPECIFICATIONS

Console aboard monochrome MOB SV82N

Dimensions …………………………..............130*110*50 mm
Weight …………………………………… ……....300g
Sealing ...……………………………….....IP67
Operating temperature ....-10°C à +55°C
Storage temperature ....…………….............-30°C à +70°C
Power.......................................………........8V-30V (500 mA)
fuse protection
Average consumption with Antenna ...…………120mA @ 12 Volts
Display 128 * 64 dots pixels with backlight

Antenna Dome Technical SEAREKA MOB AV17

Dimensions …………………………….........diam.172mm, hauteur 145mm
Weight 400g
Sealing ...……………………………….....IP66
Wind resistance ………………………........... up to 100 Knots
Operating temperature ....-20°C à +65°C
Storage temperature .....…………….........-50°C à +70°C
Power ....10V-30V (500mA) fuse protection
Frequency .....………………..…………Bande ISM   869.4Mhz to 869.65 Mhz
Radiated power max ...……………..……….....500mW
Sensitivity...-115 dBm
Worn with Beacon MOB ....3.5 NM (depending on operating conditions)

MOB Beacon BV12

Dimensions ………………………………….....130*55*45mm
Weight ...……………………………………….....150g
Sealing ....……….........IP68 (-10 meters for 10 minutes)
Positive buoyancy
Operating temperature ....-20°C à +65°C
Storage temperature ...……………...............-50°C à +70°C
Power ....…….....Batterie Lithium non-rechargeable
(replacement by a service partner every 3 years)
Autonomy after activation …..........................12 hours in a minimum environ-
ment at 20 ° C
Frequency ....……………Bande ISM 869.4Mhz to 869.65 Mhz
Radiated power max ………………….........500mW

Compass safe distance

	Console	Antenna	Beacon
Standard compass	0.30m	0.70m	0.70m
Steering compass	0.20m	0.50m	0.50m

Approval
Certificate Number : 26503/A0 MMF

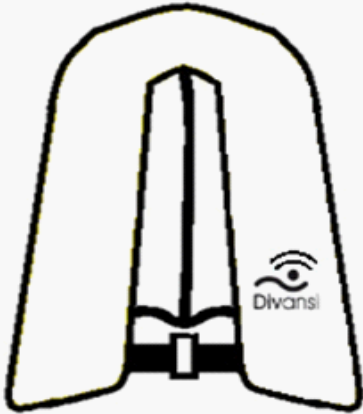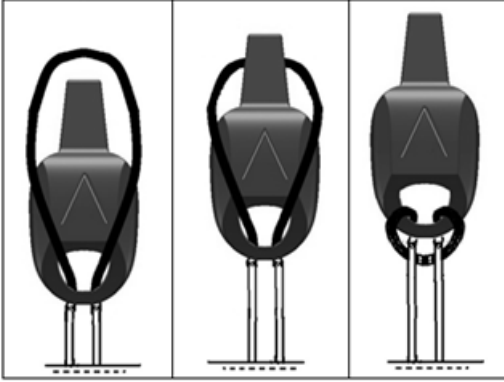Immunity(EN 55022 Classe B)
Susceptibility (EN 50082-1)
Certification $C\!\epsilon$
DAHMAS issued by BUREAU VERITAS

Are applicable to all components and devices specific trigger DAHMAS:
   i) R & TTE Directive 1999/5/EC (2002/92/EC) EN301489-3 version 1.4.1,
        version 2.1.1 EN300 220-2; ERC Rec 70-03
   ii) IEC 60945 (test environments);
   iii) IEC 61162 (digital interface).

MOUNTING THE BEACON « Divansi® MOB »

|		
Mounting the beacon in the jacket must be made by the person «referent» duly formed for this purpose Referrers Name: ……………………………….………………… The Vest approved Divansi MOB is identifiable by the logo visible on the envelope outside	Open the life vest side of the tether (see data sheet of the vest), Identify the strap with its positioning mark beacon (center) and the attachment loop to trigger the red pin. This can be sewn either on the top or bottom of the envelope.	
Crossing the red pin in the attachment loop of the vest: Start the beacon auto-test by three presses the test button (see chapter self-test) Wait a brief brilliance of the flash lamp and remove the pin (careful deployment of the antenna). A two-tone beep sounded accelerating to 1min 30 after which the alarm goes off. Place the pin in the attachment loop node by performing a suitable knot. 	Fold the antenna, and then return the pin in position on the tag on the same side as its attachment loop. Make sure the pin is locked by the eye of the antenna. Attention to the insertion of the pin, it must have its mark 'V' visible on top. The beacon goes out at the end of its cycle auto-test. **Before placing the tag in the shell of the vest and close it, check that the pin is on the same side as the direction of pull (Stretch the strap).** **Perform a final self-test control.**	

in the jacket onboard the ship :

Before installation, synchronize with the beacon of the console board. Start the Self-Test by three supports the test button (see Chapter Self-Test) and then synchronize with the console.
The tag is attached by its belt clip on the strap of the vest. For that, loosely the two top screws of the clip.

Drag the beacon on the strap of the vest where indicated, (the red pin positioned outwardly of the bladder). Insert the third screw and tighten everything.

Please do not remove the red pin to avoid triggering a false alarm.
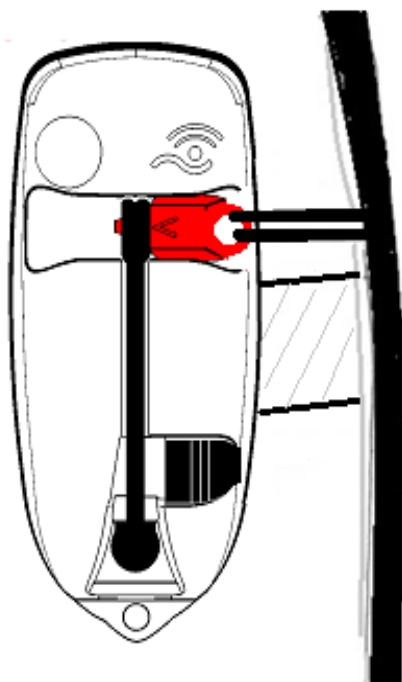
Position of the beacon on the inflated life jacket