

EN – Original instructions

easyONE A109

Version: 1.3

easy **ONE**

Made in Germany by Weatherdock AG

**AIS Man-Over-Board transmitter
with water activation**



Contents

1	SAFETY INFORMATION.....	4
1.1	GENERAL SAFETY INFORMATION	4
1.2	SPECIAL SAFETY INSTRUCTIONS FOR THE DEVICE	5
2	PRODUCT AND PERFORMANCE DESCRIPTION.....	5
2.1	USE FOR INTENDED PURPOSE.....	5
2.2	IMPORTANT PRODUCT INFORMATION.....	6
3	PRODUCT OVERVIEW	7
4	OPERATING ELEMENTS	8
4.1	ALARM FLAP	8
4.2	"ON" BUTTON	8
4.3	"TEST" BUTTON.....	9
4.4	ANTENNA	9
5	INSERTING INTO LIFE JACKET	10
6	OPERATION.....	11
6.1	AUTOMATIC ACTIVATION.....	12
6.2	MANUAL ACTIVATION.....	12
6.3	DEACTIVATION (SWITCHING THE DEVICE OFF)	12
6.4	ALERT FUNCTION (MOB ACTIVE).....	13
6.5	TEST FUNCTION (MANUALLY).....	14
7	MAINTENANCE AND SERVICE.....	18

User Manual easyONE A109

7.1	BASIC POSITION ANTENNA	18
7.2	MAINTENANCE / SERVICE	21
7.3	CLEANING	21
7.4	CONTACT AND PRODUCT SUPPORT	21
7.5	DISPOSAL AND RECYCLING INFORMATION	22
8	TROUBLESHOOTING	23
9	EASYONE–DATABASE AND LOGIN	25
10	LICENSE AGREEMENT	26
11	WARRANTY	26
12	SPECIFICATIONS	28
13	DECLARATION OF CONFORMITY	29
14	PERSONAL NOTES	31

Revision Status of the User Manual

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A109-C-0025-03

1 Safety Information

1.1 General Safety Information

WARNING

- Please read the safety information and instructions carefully. Please keep the safety information and instructions for future reference.
- Keep this device out of reach of children!
- The built-in strong transmitter may possibly have a negative effect on medical devices such as pacemakers.
- Wrongful triggering of an AIS alert is not a minor offense and may entail consequential costs.
- Caution: Risk of explosion if battery is replaced by an incorrect battery type. Dispose of used batteries according to instructions.

1.2 Special Safety Instructions for the Device

- The AIS distress transmitter easyONE serves for direct notification of distress situations for your own ship or ships in the proximity or coastal radio stations within transmission range with AIS receiving systems. These receivers are informed of an existing distress situation and the current position.
- The AIS distress transmitter easyONE does not trigger a GMDSS alert!
- The capacity of the batteries decreases if the device is used at a temperature below 0°C or above 55°C. Keep the device away from heat or hot environments. If these safety instructions are not observed, the batteries may overheat, explode or ignite inside the easyONE and may cause permanent damage to the device or environment.

2 Product and Performance Description

2.1 Use for intended Purpose

The easyOne is a portable, battery-operated AIS MOB (Man over Board) distress transmitter with an integrated GPS receiver. The device is intended for use together with an automatic life jacket. The device has a manual release mechanism and an automatic release mechanism by water contact. The AIS MOB easyONE is floatable without the need of any flotation aids.

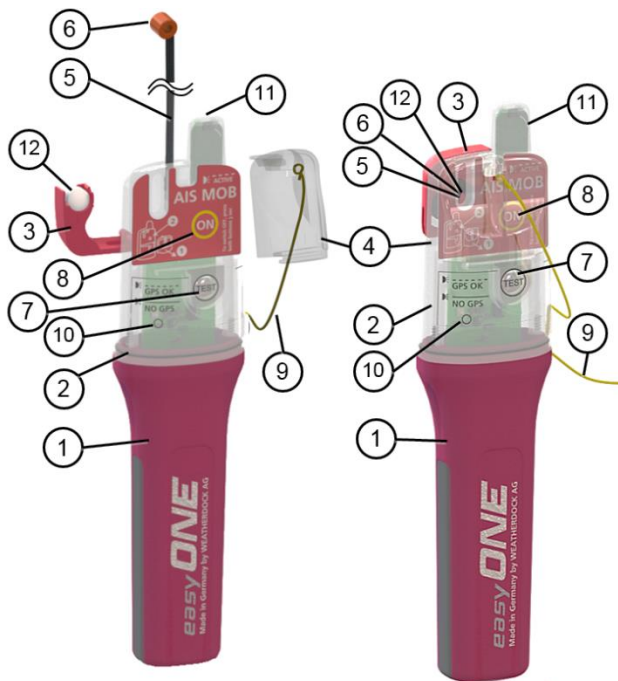
2.2 Important Product Information

The equipment is compatible with the globally used AIS system (Automatic Identification System)

It may be operated in the following European countries:

BG	DK	DE	EE	FI	FR	GR	IT	SI
LV	LT	BE	MT	NL	NO	AT	PL	
ES	HU	GB	CY	SE	IE	IS	PT	

3 Product overview



1. Bottom section
2. Upper section
3. Antenna flap
4. Alarm flap
5. Antenna
6. Antenna winding head


7. „TEST“ button
8. „ON“ button
9. Seizing, 2m
10. GPS status LED
11. FLASH LED
12. Water soluble cellulose tablet

4 Operating elements

4.1 Alarm Flap

The transparent plastic cover (4) in the upper frontal section of the device serves to avoid false alarms and to protect the antenna flap (3) at the same time.

4.2 "ON" Button


 The device can be activated manually by pressing the „ON“ button (7). By pressing this button an AIS distress signal is triggered that can be received by all ships equipped with an AIS receiver and coastal radio stations in the proximity. This distress message includes:

- Current GPS position
- Current course and speed over ground
- Text message "MOB ACTIVE"
- Unique serial number of the device
- Navigational Status 14 for active Alert



(For further information regarding the alarm function, please see section **Fehler! Verweisquelle konnte nicht gefunden werden.**)

4.3 "TEST" Button

 The device can be activated for an electrical function test by pressing the „TEST“ button (6). By pressing this button a single AIS test distress signal is triggered that can be received by all ships equipped with an AIS receiver and coastal radio stations in the proximity. Moreover, any recipient of this test signal will be informed by the additional text message "MOB TEST" that this is just a function test.



(For further information regarding the TEST function, please see section **Fehler! Verweisquelle konnte nicht gefunden werden.**)

4.4 Antenna

The antenna (5) is rolled up in the upper section of the transmitter. It's locked by a water soluble pill (12) and the alarm and antenna flap. When the antenna flap (3) was triggered upon water contact or the alarm flap (4) was removed manually the antenna unfolds independently. The device activates automatically upon water contact without requiring user intervention.



5 Inserting into life jacket

The AIS MOB easyONE is designed for use in combination with an automatic life jacket. It is inserted into the folded lifejacket bladder without trigger mechanism.

For this purpose, first unzip the life jacket or open its Velcro at the bottom of the vest. The seizing (9) of the AIS MOB is attached to a suitable position e.g. eyelet or loop on the inside of the vest. Subsequently the device is simply put between the folded buoyancy chamber of the life jacket, the seizing is enclosed threaded and the zipper/Velcro can be closed again. This special position of the unit gives a free fall into the water when the folded chamber is inflating.



Please also note our video tutorials and the reference information on our website (www.easyONE-MOB.de).

6 Operation

The AIS MOB easyONE is floatable without the aid of floating aids.

During heavy sea the floating easyONE may take a longer time to get the GPS position.

You achieve the best AIS transmitter and GPS receiver performance if you hold the distress transmitter with your hands as far away from the water as possible.



The operating status of the easyONE can be determined with reference to two integrated LEDs:

LED display	Operating status
<i><u>FLASH LED (11)</u></i> <i><u>flashing</u></i>	Device is transmitting
<i><u>GPS Status LED (10)</u></i> <i><u>permanently on</u></i>	GPS position is being determined
<i><u>GPS Status LED (10)</u></i> <i><u>flashing</u></i>	The GPS signal is perfect. The position is continuously being determined.

6.1 Automatic Activation

The AIS MOB easyONE is designed for carrying it in an automatic life jacket. If falling into the water, the life jacket opens and the floating body inflates due to the water contact. As a result, the transmitter gets into the water and the antenna is released. If the antenna is unfolded, two contacts are exposed through which the transmitter activates independently upon concurrent water contact.

The white FLASH LED (11) and the yellow GPS Status LED (10) indicate the operating status

6.2 Manual Activation

For manual activation, the alarm flap (4) is torn off from the device by using the yellow seizing (9). As a result the rolled up and taut antenna (5) can unfold. The "ON" button (8) is now exposed and can be pressed in order to trigger the emergency signal.

If you activate the device manually, keep it away from your face!

6.3 Deactivation (Switching the device off)

Deactivating the ON mode:

Press the "ON" button (8) and the "TEST" button (7) at once for at least 3 seconds.

Deactivating the TEST mode:

Press the "TEST" button (7) for at least 3 seconds.

6.4 ALERT function (MOB ACTIVE)

Upon an automatic or manual activation of the easyONE in an emergency an AIS signal is generated which is received by all ships in the proximity that are equipped with an AIS receiver.

This distress signal includes:

- Current GPS position,
- Current course and speed over ground
- Text message "MOB ACTIVE"
- Unique serial number of the device (MMSI)
- Navigational Status 14 for active AIS Search and Rescue Transmitter

Usually the easyONE is displayed like an AIS S.A.R.T. as a circle symbol on the electronic display / chart (System update of display / chart may be necessary):



On earlier systems, it appears as a ship symbol:



The 9-digit "Unit-ID" (MMSI) of the easyONE, beginning with "972...." and a safety Message (SRM) "MOB ACTIVE" are displayed and an audible and/or visual alarm is triggered, respectively.

The AIS distress transmitter easyONE does not trigger a GMDSS alert. However, since nowadays all commercial ships and many sport ships/yachts are equipped with an AIS receiver on board, they can forward the alert (e.g. via GMDSS).

6.5 TEST function (manually)

Please check the transmitting function of the easyONE on a regular basis. An annual or semi-annual test is usually sufficient. Too frequent testing reduces battery capacity. The battery is designed for 7 years and more than 30 test activations.

The antenna mechanism does not have to be triggered for the function test!

Carrying out the test:

- Leave the antenna rolled up inside the device.
- Press the "TEST" button (7) and make sure that the easyONE has a clear view to the sky in order to have good GPS reception conditions.
- As a sign that the test mode has been started, the FLASH LED (11) and GPS Status LED (10) light up for one second. Subsequently the GPS Status LED (10) is permanently on. Once a GPS position is received, the GPS Status LED (10) starts flashing. The easyONE start sending a bundle of AIS messages with the content "MOB TEST"
- After successful testing the device switches off automatically.
- If, for any reason (barrier by large buildings; no "clear view" to the sky), a GPS position cannot be received, the device sends after five minutes a bundle of AIS telegrams without a position and switches off automatically.

- You can check the transmission of the easyONE by using commercially available AIS receivers (e.g. easyAIS) which needs to be connected to a chart plotter or laptop with navigation software. Usually the easyONE is displayed like an AIS S.A.R.T. as a circle symbol on the electronic display / chart. On earlier systems, it appears as a ship symbol. The 9-digit "Unit-ID" (MMSI) of the easyONE, beginning with "972...." and a safety Message (SRM) "MOB ACTIVE" are displayed and an audible and/or visual alarm is triggered, respectively.

A receiver in immediate vicinity should be able to receive the easyONE even with the antenna rolled up.

- The test mode may be terminated early by pressing the "TEST" button (7) (for more than 3 seconds). The LEDs stop flashing and the device switches off.

User Manual easyONE A10g

- At the end of the self-test, shortly before the device switches off, the LEDs show the test result for 4sec.

GPS-LED	FLASH-LED	GPS	BATTERY	
—	—	✓	✓	■ ■ ■ ■ Flashing
—	■ ■ ■ ■	✓	✗	
■ ■ ■ ■	—	✗	✓	— Permanently illuminated
■ ■ ■ ■	■ ■ ■ ■	✗	✗	

Table 1: Blinking / Light up-pattern of test status

LED display	Test result
<p><u>GPS-Status LED (10)</u> <u>lights up</u></p> <p style="text-align: center;">+</p> <p><u>Flash LEDs (11)</u> <u>light up</u></p>	<p>The GPS reception was flawless. A position was determined.</p> <p style="text-align: center;">+</p> <p>The battery life is OK.</p>
<p><u>GPS-Status LED (10)</u> <u>flashes</u></p> <p style="text-align: center;">+</p> <p><u>Flash LEDs (11)</u> <u>light up</u></p>	<p>No GPS position could be determined within the first five minutes of testing time.</p> <p style="text-align: center;">+</p> <p>The battery life is OK.</p>

LED display	Test result
<p><u>GPS-Status LED (10)</u> <u>lights up</u></p> <p style="text-align: center;">+</p> <p><u>Flash LEDs (11)</u> <u>flashing</u></p>	<p>The GPS reception was flawless. A position was determined.</p> <p style="text-align: center;">+</p> <p>The easyONE found that the battery capacity is limited. This happens when the device has been activated (MOB ACTIVE) or if the expiration date is exceeded or if the "TEST" button has been pressed more than 30 times.</p>
<p><u>GPS-Status LED (10)</u> <u>flashes</u></p> <p style="text-align: center;">+</p> <p><u>Flash LEDs (11)</u> <u>flashing</u></p>	<p>No GPS position could be determined within the first five minutes of testing time.</p> <p style="text-align: center;">+</p> <p>The easyONE found that the battery capacity is limited. This happens when the device has been activated (MOB ACTIVE) or if the expiration date is exceeded or if the "TEST" button has been pressed more than 30 times.</p>

Table 2: Description of test status

For the operation of the easyONE please also note our video tutorials and the reference information on our website (www.easyONE-MOB.de).

7 Maintenance and Service

7.1 Basic position Antenna

If the antenna mechanism of your easyONE should have been triggered unintentionally or you notice in the process of time that the water soluble pill starts breaking apart, you have the possibility to return your easyONE to original state. Therefore you'll need a customary hex key (size 3mm) and a Secumar dissolvable activation pill from your specialist shop.

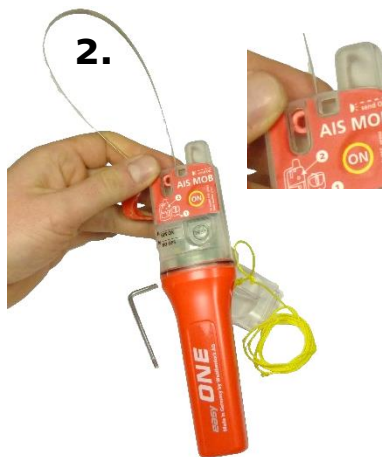
Implementation:

1. Get the Allen key und spare pill ready.
2. Insert the red antenna winding head (6) into the antenna slot.
3. Insert the Allen key into the antenna winding head's hexagonal hole and screw the antenna with the Allen key **counterclockwise**.
4. Hold the Allen key with the thumb
(Warning: Spring effect of the screwed antenna!)
5. Insert the water soluble pill into the antenna flap.
6. Close the antenna flap and fix it with the alert flap.
7. Ready. Your easyONE is fully functional again.

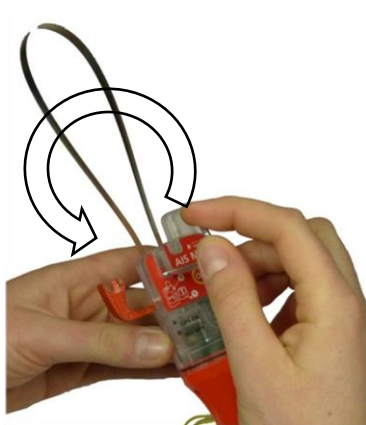
1.



2.



3.



4. / 5.



6.



7.



The overhaul of the trigger mechanism by a non-certified distributor or reseller is at your own risk!

Only original spare pills are suited for replacement.

Please also note our video tutorials and the reference information on our website (www.easyONE-MOB.de).

7.2 Maintenance / Service

Upon expiry, the batteries must be replaced by a specialist dealer.

This is the only way to ensure 100 % functionality of the device for further use.

7.3 Cleaning

In order to prevent damage to the plastic parts, use only a light damp cloth (no scouring agents and alkaline detergents or detergents containing acids or alcohol) to dust the product.

7.4 Contact and Product Support

Although WEATHERDOCK strives for accuracy in all its publications, this material may contain errors or omissions, and is subject to change without prior notice. Weatherdock AG shall not be made liable for any specific, indirect, incidental or consequential damages as a result of its use. Weatherdock AG components may only be used in safety of life devices or systems, with the express written approval of Weatherdock AG, as the failure of such components could cause the failure of the Weatherdock AG device or system. If these fail, it is reasonable to assume that the safety of the user or other persons may be endangered.

Contact your local dealer for support.

User Manual easyONE A109

If the dealer may not be able to help, please contact our service department:

Weatherdock AG, Sigmundstraße 180, D-90431 Nürnberg

Telephone: +49 (0)911-376638-30

Telefax: +49 (0)911-376638-40

Email: info@weatherdock.de

Internet: www.easyais.com

7.5 Disposal and Recycling Information



The AIS MOB easyONE uses lithium batteries. They shall not be given to household waste and must be given to the collection of recyclables.



8 Troubleshooting

Please read the following tips for troubleshooting carefully. They might be vital if a problem occurs in an emergency situation!

Fault	Action
Antenna does not unfold automatically	Pull the alarm flap (4) with the seizing (9) off the device and press the antenna flap (3) counterclockwise with your hand outwards. The antenna (5) unfolds immediately. By pressing the "ON" button (8) you activate the distress signal manually.
The device cannot be activated manually by pressing the "ON" button	Keep the device under water for 5 seconds, so that the device is automatically activated through the water contacts.
The easyONE does not receive a GPS position (GPS Status LED not flashing)	Keep the easyONE in one hand and hold it away from the water as far as possible. This also increases your transmission range!

User Manual easyONE A109

<p>The easyONE is jammed in the life jacket or between the life jacket and your body.</p>	<p>Try to free the easyONE carefully. You can have the device floating beside you.</p>
<p>The TEST mode cannot be activated.</p>	<p>Please send the device immediately back to your dealer for service.</p> <p>This is for your own safety!</p>
<p>GPS Status LED (10) flashes for 2 sec after TEST</p>	<p>No GPS position could be determined within the first five minutes of testing time.</p> <p>And / or:</p> <p>The easyONE found that the battery capacity is limited. This happens when the device has been activated (MOB ACTIVE) or if the expiration date is exceeded or if the "TEST" button has been pressed more than 30 times.</p>

Table 3: Troubleshooting

If the device cannot be activated (TEST / ON mode), send it back to your dealer for service immediately!

9 easyONE–database and login

To improve the functionality of the easyONE Weatherdock provides a database on their web site. On this web site you can enter more information together with your easyONE's unit ID, which could be useful for any SAR service.

On a voluntary basis, you can enter information concerning your boat and personal data, which are relevant for you as an owner of an easyONE. With your data you create an information platform which helps the emergency organization to do the right things - for example, in cases of diabetes or pharmaceutical intolerance.

Beside you, only official authorities e.g. German „DGzRS“ or the British „UK Coast Guard“ will have access to your data. This is because of live saving reasons and happens only when your easyONE will be activated.

To enter your data, please use the Unit-ID of the unit itself as well as the password, which is also printed on the product label.

For more information about that service please look on our web site.

www.easyAIS.com
or
www.weatherdock.com

10 License agreement

By using the easyONE you agree to the following warranty agreement. Please read the agreement carefully.

The Weatherdock AG grants a limited license for using the device for normal operation of the product. Name, property rights and intellectual property rights in and of the software remain with the Weatherdock AG.

11 Warranty

This Weatherdock product is warranted to be free from defects in materials or workmanship for 24 month from the date of purchase. Within this period, Weatherdock will at its sole option repair or replace any components that fail in normal use. Repairs or replacement at the expense of Weatherdock AG will be made at no charge to the customer for parts or labour, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident or unauthorized alteration or repairs.

The warranties and remedies contained herein are exclusive and in lieu of all other warranties express or implied or statutory, including any liability arising under any warranty of merchantability or fitness for a particular purpose, statutory or otherwise. In no event shall Weatherdock be liable for any incidental, special, indirect or consequential damages, whether

resulting from the use, misuse, or inability to use this product or from defects in the product.

Weatherdock retains the exclusive right to repair or replace the unit or software or offer a full refund of the purchase price at its sole discretion. Such remedy shall be your sole and exclusive remedy for any breach of warranty.

If you choose to use the easyONE in a boat, it is the sole responsibility of the owner/operator of the easyONE to secure the easyONE so that it will not cause damage or personal injury in the event of an accident. It is the sole responsibility of the operator of the boat to operate the boat in a safe manner, maintain full surveillance of all boating conditions at all times, and never become distracted by the easyONE to the exclusion of safe operating practices.

12 Specifications

Description	Value
Dimension	195 * 50 * 30 mm
Weight	120 grams
Waterproofness	Up to 10 meters
Battery	LiMn cells
Battery operating time	36 h at 0°C
Battery life	7 years
Frequency	161.975 MHz and 162.025 MHz
Radiated power	≥ 1 watt
GPS receiver	With integrated antenna pursuant to IEC61108-1
UKW antenna	foldout; rolled up in the device during inactive mode
Displays	2 LEDs ("GPS Status" and "FLASH")
Controls	2 buttons ("TEST" and "ON")
Supported AIS messages in transmission mode	Msg.01 AIS position report Device identification number Course over ground Speed over ground Msg.14 Safety message Device identification number Text: "MOB ACTIVE" in distress ("ON") Text: "MOB TEST" in test mode ("TEST")
Operating temperature	-10°C to +55°C
Storage temperature	-30°C to +70°C
Identification	MMSI: 972XXXXXX as MOB ACTIVE / TEST

Table 4: Specifications

13 Declaration of Conformity


EC DECLARATION OF CONFORMITY

We: **Weatherdock AG**,
Sigmundstrasse 180, D-90431 Nürnberg

declare under our sole responsibility that the products

Name and Type	easyONE (A109)
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are manufactured conform to the contents of the following table:

Product	AIS-MOB (Automatic Identification System Man-over-board transmitter)
EU Council Directive	R&TTE – 1999/5/EC
Testing standards	EN 60950-1:2006, EN 301 489-1 V1.92, EN 301 489-3 V1.6.1, EN 61097-14:2010, EN 300 440-1 V1.6.1, EN 300 440-2 V1.4.1
Name, Address of manufacturer	Weatherdock AG, Sigmundstrasse 180, D-90431 Nürnberg
Notified Body	Phoenix TestLab, 0700
Marking on device label	CE 0700 

Usage:

The intended usage of the easyONE is to provide Search and Rescue locating information for on-screen Search and Rescue in maritime distress situations.

Technical Construction File:

The technical construction file for this product is held by Weatherdock AG

On behalf of Weatherdock AG



Alfred Kotouczek-Zeise, CEO
February 19th, 2015



Jürgen Zimmermann, CTO
February 19th, 2015

Anhang : Mitführen in Luftfahrzeugen

Der easyONE (AIS-MOB) ist von dem Verbot des Betriebs elektronischer Geräte in Luftfahrzeugen nach der "Verordnung zur Regelung des Betriebs von nicht als Luftfahrtgerät zugelassenen elektronischen Geräten in Luftfahrzeugen (LuftEBV)" nach § 27 Abs. 3 des Luftverkehrsgesetzes vom 10.Mai 2007 (BGBl. I S. 698) ausgenommen.

Begründung:

Nach Absatz 2 der LuftEBV ist der easyONE (AIS-MOB) kein "Elektronisches Gerät" im Sinne dieser Verordnung, da das Gerät - in der Schwimmweste oder an einer Person befindlich - als Seenot-Rettungssender nicht aktiviert und im Sinne der Verordnung nicht in Betrieb ist. Der easyONE (AIS-SART) ist auch nicht in einer Betriebsart, die ein internes Weiterarbeiten des Gerätes zulässt (z.B. Stumm- oder Bereitschaftsschaltung). Die elektronischen Schaltkreise sind im deaktivierten Zustand von der Energieversorgung (Batterie) getrennt. Ein unabsichtliches Senden im Sinne der Verordnung wird beim Tragen des easyONE (AIS-SART) in einer Schwimmweste oder an einer Person durch die von der IMO (Internationale Maritime Organisation) in der Resolution IMO MSC.246(83) Annex 18 Absatz 2.2.1 vorgeschriebene Vorrichtung [*"The AIS-SART should: be fitted with means to prevent inadvertent activation; "*] verhindert.

Annex : Carriage on Aircrafts

The easyONE (AIS-MOB) can be carried on aircraft according to the German regulation "Verordnung zur Regelung des Betriebs von nicht als Luftfahrtgerät zugelassenen elektronischen Geräten in Luftfahrzeugen (LuftEBV)" nach § 27 Abs. 3 des Luftverkehrsgesetzes vom 10.Mai 2007 (BGBl. I S. 698).

Explanatory Statement:

According to section 2 of LuftEBV the easyONE (AIS-MOB) is not an electronic device in the sense of this regulation, because the device, which is fitted on a life vest or carried at a person as a Search-and-Rescue-Transmitter, is not activated and therefore in non-operating state. The easyONE (AIS-MOB) is also not in a state, which allows an internal continued operation (e.g. silent or stand-by). The electronic circuits are disconnected from the power supply (battery) when deactivated. An inadvertent activation of the transmitter in the sense of this regulation is prevented when the device is carried in a life vest or at a person by the requirement of the IMO Resolution MSC.246(83) Annex 18 section 2.2.1 : [*"The AIS-SART should: be fitted with means to prevent inadvertent activation; "*].

On behalf of Weatherdock AG



Alfred Kotouczek-Zeise, CEO
February 28th, 2012



Jürgen Zimmermann, CTO
February 28th, 2012

14 Personal notes

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