easyRESCUE-SAT

SAT-SART
SAT-SART-PRO
SAT-MOB

Instruction manual

English – V1.0

easyRESCUE SAT-MOB

AIS + DSC + iridium

1 Additions According to DIN EN IEC/IEEE 82079-1

1.1 Information Management Process

The creation, maintenance, and updating of this manual follow a defined information management process. This includes analysis of user needs, structured information gathering, quality assurance through reviews, and regular updates in case of product changes.

1.2 Target Audience Analysis

These instructions are intended for advanced sailors.

The following knowledge is required:

- In-depth knowledge of AIS and DSC
- Experience with maritime offshore environment
- Confident use of PC software for configuring technical devices.

1.3 Safety Information Clarification

Signal words such as WARNING indicate safety-related instructions. These are used in accordance with ISO 3864-2 to highlight potential hazards and ensure user safety.

1.4 Author Competence

This manual was created by qualified technical writers with expertise in AIS systems and technical documentation in accordance with DIN EN IEC/IEEE 82079-1.

1.5 Media and Layout Considerations

This manual was designed with readability and visual clarity in mind. Font sizes and contrast were selected to ensure legibility under various lighting conditions.

1.6 Structural Navigation

To improve navigation, consistent headings and internal references (e.g., 'see Chapter 10.3') are used throughout the document.

2 Identification of the information for use

2.1 Purpose and Intended Use

The devices of the easyRESCUE-SAT family are designed as a personal rescue beacon to provide the exact position of a MOB event as fast as possible to the own vessel, vessels within vicinity and MRCC (Maritime Rescue Coordination Centre). All devices are intended to be mounted inside an automatic life jacket with designated pocket.

The device must not be used:

- Outside the life jacket,
  - e.g. fixed on a belt
  - e.g. inside a trouser pocket

2.2 Misuse

Any use of this product other than that described under "Purpose and Intended Use" is considered improper. The manufacturer accepts no liability for any damage resulting from such use.

Examples of misuse include:

- Connection to non-approved antennas or power sources.
- Modification of hardware or software without written approval from the manufacturer.

3 Warnings

- **WARNING - General Warning**

All marine automatic identification system (AIS) units utilize a satellite-based system such as the global positioning satellite (GPS) network or the global navigation satellite system (GLONASS) network to determine position. The accuracy of these networks is variable and is affected by factors such as the antenna positioning, how many satellites are used to determine a position and how long satellite information has been received for. Therefore, it is desirable wherever possible to verify both your vessels AIS derived position data and other vessels AIS derived position data with visual or radar-based observations.

- **WARNING - Safety**

Read all safety information and instructions. Keep all safety information and instructions for future reference!

- Please keep the appliance out of the reach of children!
- The internal, powerful transmitter may impair the function of medical devices such as pacemakers!
- Falsely triggering an AIS/Iridium® emergency call is not a trivial offence and can result in consequential costs!

- Maintenance may only be carried out by authorized service providers/specialist dealers! Only batteries from a Weatherdock service-center may be used.
- Unauthorized opening of the appliance will invalidate the warranty. Unauthorized and forced opening can destroy the appliance.
- Caution: There is a risk of explosion if the batteries are replaced with an unsuitable battery type. Dispose of used batteries in accordance with the instructions.
- If the device is used below a temperature of 0°C or above 55°C, the capacity of the batteries will decrease.
- Keep the device away from heat or hot environments. The batteries inside the easyRESCUE-SAT-MOB could overheat, possibly even explode or burn and cause damage to the de-vice and the surrounding area!

4 References

Revision Level

Stand 1.0, Autor: Jürgen Zimmermann (CTO), Michael Knipp (Head of Marketing), 4/2026

Restrictions

There are no known restrictions for the usage of one of the easyRESCUE-SAT product-family devices in EU countries.

5 Abbreviation list

AIS	Automatic Identification System
BT	Bluetooth
COG	course over ground
DSC	Digital Selective Call
ECDIS	electronic chart display and information system)
GMDSS	Global Maritime Distress and Safety System
GNSS	Global Navigational Satellite System (GPS, Galileo, …
IMEI	International Mobile Equipment Identity
LED	Light-emitting diode
MOB	Man Over Board
MRCC	Maritime Rescue Coordination Center
SART	Search and Rescue Transmitter
Nm	Nautical mile (1nm = 1852m)
SOG	Speed over Ground
SRM	Safety Related Message
VHF	Very high frequency
Unit ID	Individual identification number of the unit

6 Pictures / Sketches Overview

7 Table of Symbols

Symbol	Meaning	Where to find
CE	Conformitée Européenne	
	Warning	
	WEEE (Waste of Electrical & Electronical Equipment) separate collection of E-Waste	
	Electrical Power	

Table of Content

8 Scope of Delivery

The package contains:

❶ ❷ ❸

Figure 1 the box contains

❶ Personal Rescue Beacon of easyRESCUE-SAT product family

- easyRESCUE-SAT-SART (A04020)
- easyRESCUE-SAT-SART-PRO (A04026)
- easyRESCUE-SAT-MOB (A04022)

❷ VHF Antenna (to be screwed on top of the device)

❸ Manual

9 Correct Antenna Installation

Place the sealing ring on the antenna thread on the easySAT-SART / easySAT-MOB.

Screw the antenna tight onto the device by hand (do not use any tools).

10 Introduction

The easyRESCUE-SAT devices are a portable, battery-operated AIS and Iridium-Satellite rescue transmitter with an integrated GNSS receiver. Ships in the immediate vicinity with AIS reception on board can thus have the position of a person who has fallen overboard displayed on the chart plotter.

The integrated Iridium® Satellite Communication-module enables a maritime distress signal to be forwarded to a Maritime Rescue Coordination Centre (MRCC) via the earth-spanning Iridium® satellite network.

The device is exclusively intended for use with an automatic lifejacket.

When activated (automatically or manually), the device starts transmitting the two distress signals in parallel via AIS and the Iridium® satellite network as soon as its own GNSS position has been determined.

There are some product variants featuring DSC (digital selective call) as a third alarm function.

11 Product overview

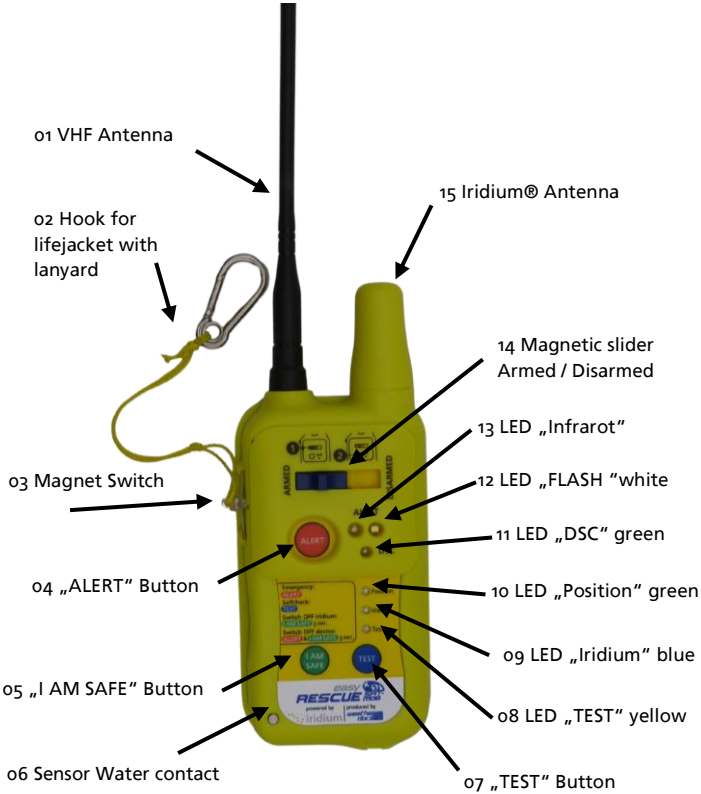
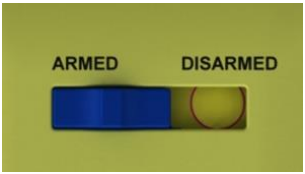


Figure 2 product overview

12 Controls & indicators

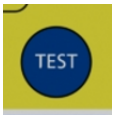
12.1 Armed / Disarmed slider



New regulations stipulate that the activation of an AIS-DSC-MOB device can be switched off. This is done using the slider (14)

- "Disarmed" means that the buttons are switched off and a test and a manual activation via TEST button is not possible. The magnetic switch (03) is still active. The water contact sensor (06) is deactivated.
- "Armed" means that the automatic release is activated for both the magnetic switch (03) and the water contact (06). A test as well as a manual activation are now possible again.

12.2 TEST Button



The device can be activated manually for a function test using the "TEST" button (07). To do this, the slider (03) must be set to "Armed".

12.3 ALERT Button

The device can be activated manually using the "ALERT" button (04). Pressing this button triggers an AIS distress signal, which is received by all ships and coastal radio stations in the vicinity that are equipped with an AIS receiver. An Iridium® alarm is also triggered at the same time. To do this, the slider (03) must be set to "Armed".

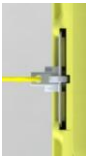
12.4 I AM SAFE Button

Pressing this button (05) sends a callback of the previously triggered emergency call to the Iridium® satellite network. This means that a GMDSS rescue chain that has already been triggered can be cancelled as quickly as possible, as the emergency no longer exists.

However, the reset only applies to the Iridium® alarm.

The AIS distress signal will continue to be transmitted unchanged until the device is switched off.

12.5 Magnetic switch with strap



The magnetic switch (03) enables automatic activation in an emergency. The lanyard is connected to the waistcoat via the hook (02). As soon as the vest inflates (via water contact), the lanyard is tensioned until it pulls the magnetic switch off the device. The easyRESCUE-SAT-MOB is activated and transmits distress signals via the AIS and Iridium satellite network. **The magnetic switch is not deactivated by "Disarmed" slider under 12.1.**

The strap must be so tight that the magnetic switch (03) is removed from its holder when the waistcoat is inflated.

12.6 Hook for lifejacket

Every automatic lifejacket has such a D-ring or other eyelets to which the hook (02) can be attached.

12.7 Water contact sensor

The water contact sensor (06) is used for automatic activation in the event of water contact. As soon as there is a water bridge between the sensor and the base of the VHF antenna (01) for longer than 1 seconds, the device is automatically activated.

12.8 LED „Test“

This yellow LED (08) indicates the test result.

12.9 LED „Iridium“

This blue LED (09) indicates Iridium® communication with the satellite network.

12.10 LED „Position“

This green LED (10) indicates the availability of position fix (GNSS fix). (Sources: GPS, Glonass, Beidou)

12.11 LED „DSC“

This green LED (11) indicates DSC communication.

12.12 LED „FLASH“

This white LED (12) indicates the activation of the device in an emergency.

12.13 LED „ALERT“ (infrared)

This infrared LED (13) lights up after activation to be recognised by infrared cameras, e.g. from a rescue helicopter.

13 Mounting in automatic life jacket

The easyRESCUE-SAT devices can be integrated into automatic life jackets already having a pre-defined pocket where the unit is mounted.

For integrating the rescue transmitter into an automatic lifejacket, you need a lifejacket model with a pocket specially designed for this purpose, which is attached to the buoyancy chamber of the lifejacket.

The device is inserted into the pocket, and the hook (02) is attached to a D-ring or an eyelet so that the magnetic switch (03) is pulled out of the holder when the lifejacket is triggered.

Please follow the manufacturer's instructions for inserting AIS MOB/SART devices into life vests.

Attention Important:

Make sure that the magnetic slider (14) is set to "armed" so that it activates automatically as soon as the liefjacket inflates or the rescue transmitter comes into contact with water when submerged.

Figure 3 life jacket mounting

If the slider is set to "disarmed", there is no automatic activation.

Note: There is also a magnetic release mechanism that is always active, regardless of the slider position. This ensures activation even when the slider is set to "disarmed".

14 Function

The easyRESCUE SAT-MOB rescue transmitter can float independently without additional aid. The device is designed for use in an automatic lifejacket with a special bag that is attached to the buoyancy chamber of the lifejacket.

Pouches for attachment to a rescue brace, the upper arm and a Molle carrying system are also available as accessories.

14.1 Test

Functional tests should be performed at least four times a year. The battery is designed to support up to 30 test cycles over its 5-year lifespan without performance degradation. To do this, press the "TEST" button. A complete system check is carried out, transmitting a 'Test-message' via AIS, DSC, Iridium®.

To indicate that test mode has been started, all LEDs light up for 1 second. The test LED (08) and the flash LED (12) then flash alternately.

The test should be carried out outdoors with sufficient distance to high objects. The minimum distance to the AIS receiver should be 15 metres.

14.1.1 AIS

As soon as a GNSS position is received, the green position LED (10) also flashes. The rescue transmitter then sends an AIS telegram bundle with the GNSS position and the message "MOB TEST". This test signal is received by all AIS receivers in the vicinity, but above all on your own boat. The MOB symbol (green circle with green X) appears on the chart plotter (ECDIS) together with the text "MOB TEST". This could be different on other manufacturers ECDIS.

Figure 4 chart plotter display

At the end of the self-test, the position LED (10) and the test LED (08) indicate the test result for 4 seconds (see section 5.1.4).

14.1.2 DSC

If a ship's MMSI is programmed, the DSC LED lights up for 3 seconds at the start of the test mode. Please note that **only**

the first programmed Mothership MMSI is addressed during the test sequence. DSC transmissions occur only after the AIS burst; two messages are sent: a **DSC Test Call** and a **DSC Routine Call** (for compatibility with older radio systems that do not support the Test Call function).

The following appears on the display of the DSC radio:

Figure 5 DSC radio display

14.1.3 Iridium®

At the same time as the AIS test, an Iridium® test signal is sent to the satellite network. The satellite that received the test signal sends back a confirmation. This is called a "handshake". The Iridium LED only lights up or flashes at the end of the test, along with the other LEDs.

The test sequence is:

GPS, followed by an Iridium transmission, then 8 AIS transmissions simultaneously, followed by 2 DSC transmissions.

Once all 3 tests are complete, the LEDs will light up or flash.

If the signal was not received, the Iridium LED flashes rapidly.

Once the test has been completed, Iridium communication is automatically switched off. There is no communication beyond this one satellite. AIS and DSC are also switched off after the test has been completed.

14.1.4 Flashing pattern of the LEDs at start of test

DSC LED (green)	Result
_____	MMSI programmed
Off	No MMSI programmed / not Acknowledged within ALERT-Mode
_ _ _	Acknowledge received from VHF radio

Meaning: ____(LED on) - - - (LED blinks)

14.1.5 Flashing pattern of the LEDs at end of test

✓ (OK) | ✕ (check App to see results)

TEST:

Test LED (yellow)	All Tests
———	✓
– – –	✕

GNSS:

Position LED (green)	GNSS-Position Fix
———	✓
– – –	✕

DSC:

DSC LED (green)	DSC-Acknowledge received
———	✓
– – –	✕

Iridium:

Iridium LED (blue)	Handshake with Iridium Satellite
———	✓
– – –	✕

Battery:

Flash LED (white)	Battery capacity
off	OK (> 24 h)
_	50 % (> 12 h)
_ _	25 % (> 6 h)
_ _ _	Low (< 6 h)

14.2 Emergency alarm

If the magnet slider (14) is set to "**Disarmed**", On contact with water the transmitter is **not activated automatically**. The buttons are also deactivated.

Please push the magnetic slider 12.1 it to "Armed"-position and then the "ALERT" button must be pressed for longer than 2 seconds for manual activation.

If the magnetic slider is already set to "Armed", in addition to manual activation, automatic activation on contact with water and automatic activation by pulling out the magnetic switch with strap are also possible.

14.2.1 Position determination

The position acquisition takes place immediately after activation. By receiving several signals from the GNSS satellites, the position can be determined using LAT/LONG coordinates. This positioning is included in the transmission of the AIS distress signal as well as in the transmission of the Iridium® signal.

For DSC-equipped devices, the position data is also used for transmitting emergency signals.

14.2.2 Functionality of AIS

As soon as a successful GNSS fix is obtained (refer to Position LED, item 10), an AIS distress signal—specifically an **AIS Safety**

Related Message (SRM)—is transmitted. Detailed information regarding the contents of this SRM can be found in the technical specifications under **Section 8.2**.

In alarm mode, both the flash LED (12) and the yellow alert LED (11) flash at same time.

This SRM is received by all ships within the reception range reception range of up to 10 nautical miles with AIS on board. Especially from your own ship in the immediate vicinity.

The information contained in the SRM (position, unit ID of the transmitter, etc.) allows the MOB position to be displayed on the ship's chart plotter. Due to the unit ID beginning with 970 or 972, the AIS system recognises that this is the position report of an activated AIS rescue transmitter and not the position report of a ship. The official MOB symbol (red X with red circle) is displayed at this position on the electronic chart. This is a visual deviation from the regular ship positions. Some ECDIS manufacturers might handle this slightly different. This message on the screens or chart plotters must be confirmed.

The illustration below shows the display of an active AIS rescue transmitter on a chart plotter.

An SRM is transmitted to the AIS system until the battery capacity is exhausted or the device is switched off after the emergency situation has ended.

14.2.3 Functionality of DSC

In case of activation, the Rescue Transmitter will send additionally a DSC emergency message with GPS coordinates, which is part of the GMDSS rescue chain.
The DSC Receiver receives the acknowledge of the DSC emergency message (e.g. acknowledge of a coastal radio station) and the victim is informed about this activity by a long beep from the internal buzzer as well as by the green DSC confirmation LED of the device, which starts to flash after the acknowledgement. With this reception the DSC transmission will be stopped.
The transmission of AIS continues notwithstanding the above.

By activating the device, the transmission of the emergency messages by DSC starts as follows:
(Please see also flow chart on next page)
Step 1:
Sending of emergency message only to saved MMSI without GPS position („closed loop" = individual call)
Step 2:
Sending of emergency message only to saved MMSI with GPS position („closed loop" = individual call)
Step 3:
Sending of emergency message to everyone with GPS position ("open loop" = all ships call)

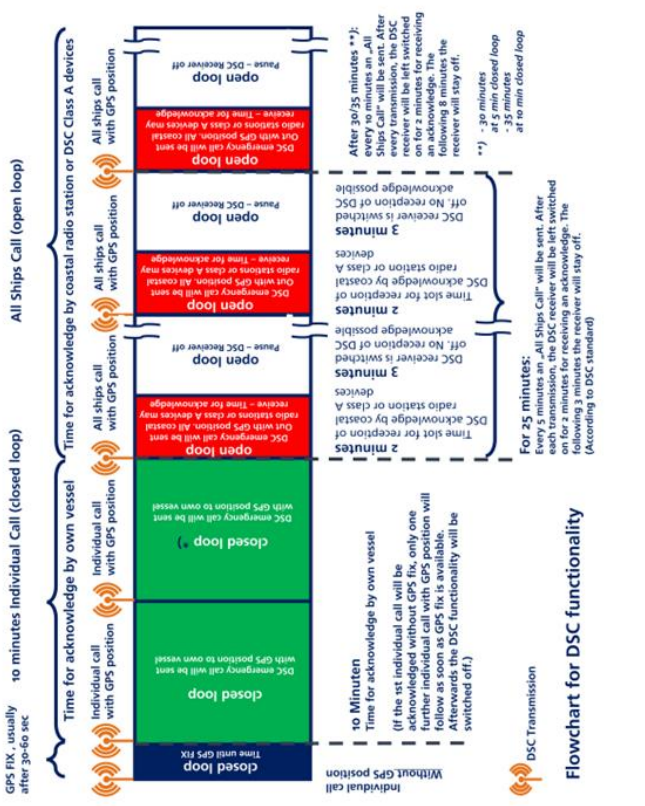


Figure 6 DSC transmitting sketch

14.2.4 How Iridium® works

As soon as there is a successful GNSS fix after activation, an "emergency signal" is sent to the Iridium® satellite network.

The network provides 100% coverage of the Earth's surface, including both polar regions. This ensures that a satellite is available for communication at any time and from any location.

Each Iridium® satellite is cross-linked to four other satellites. When a 'distress signal' is received, it is routed through the network to the satellite currently positioned over a ground station. The data transmitted with the distress signal is then downloaded directly to the ground station.

The ground station immediately forwards the information digitally to the rescue organization MRCC Bremen. Within a few minutes, the emergency call arrives where it belongs: at the local rescue coordination center.

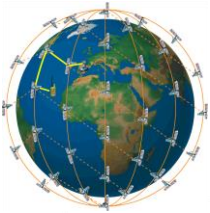
Once MRCC Bremen has processed the alert, they send an acknowledgment message to your device. The **Iridium LED will then flash once every second**. At this point, the device automatically adjusts its Iridium reporting rate from 5-minute to 15-minute intervals.

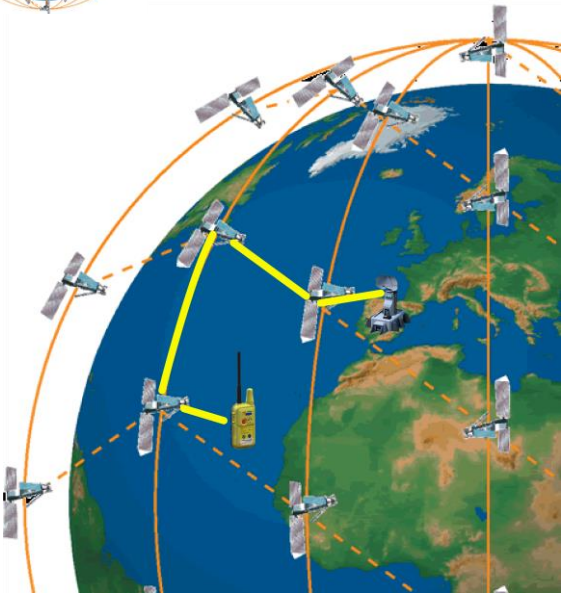
You can terminate the Iridium and DSC transmissions at any time by pressing the **"I'm Safe"** button for three seconds.

The device then transmits an "I'm Safe" message to MRCC Bremen, indicated by the **Iridium LED flashing twice every second**.

Once MRCC Bremen receives this message, they will return an "I'm Safe Acknowledgment" to the device. Upon receipt, the **Iridium LED will flash three times every second**. This confirms that the acknowledgment has been received and no further Iridium messages will be sent.

Additionally, pressing "I'm Safe" triggers a **DSC Self-Acknowledgment** transmission. This informs nearby vessels that assistance is no longer required and terminates all further DSC transmissions.





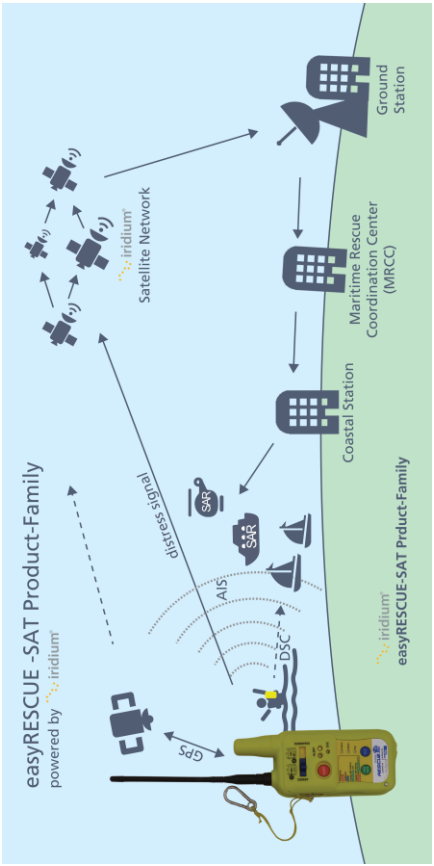


Figure 7 function sketch

15 Configuration / Programming

15.1 App

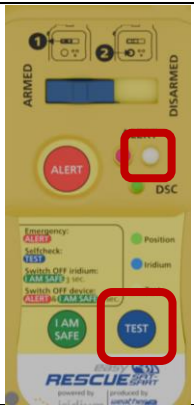
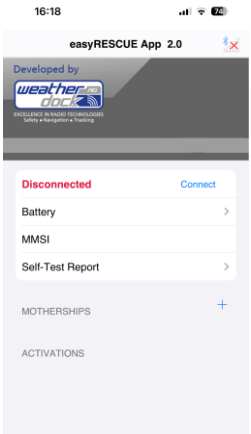
A free app is available to download for both Apple and Android for the easyRESCUE SAT-MOB product family.

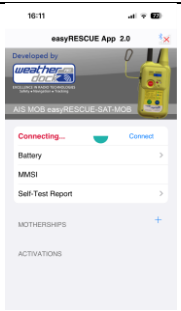
Apple	Android
Available on the App Store	ANDROID APP ON Google play

15.1.1 Installation & handling

You can use the app to connect the rescue transmitter to your mobile device, e.g. to check test results, battery status, etc.

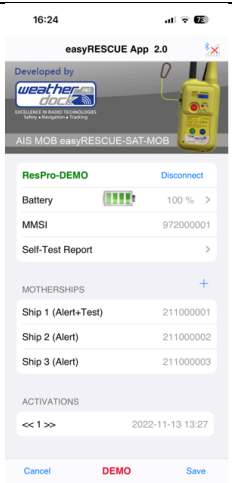
For devices with DSC, you can also programme your DSC radio's own MMSI and up to 7 additional MMSI numbers in the app. These MMSI numbers are then alerted in the event of an alarm.

	Activate the Bluetooth function on your mobile device. To connect the rescue transmitter via Bluetooth®, press and hold the "TEST" button (approx. 5 seconds) until the buzzer beeps 2 times As soon as Bluetooth mode is active, the yellow “Test” LED (12) flashes.
	Open the app and you will see this start screen. If you have set the rescue transmitter to Bluetooth mode, please press "Connect". A connection is established between the two devices.



The connection is established.

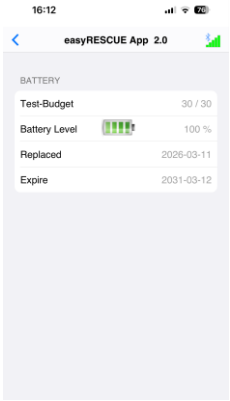
After a successful connection, you will see additional information about the rescue transmitter on the start screen.

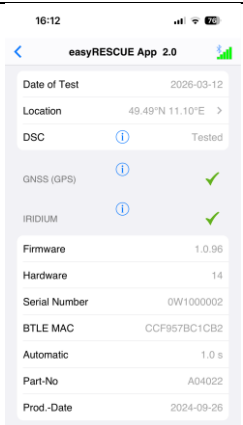


1. you receive information about the battery status of your device.
2. you will see the MMSI number of the rescue transmitter that is used for sending the alarm signals (factory default).
3. you will see an overview of the self-test results that have already been carried out.
4. you will see an overview of the device activations that have already taken place

For devices with DSC:

5. you will see the MMSI numbers of DSC radios that have already been

	programmed (no number entered at the factory).
	If you press the small arrow next to "Battery" on the right-hand side of the start screen, you will be taken to this display. This shows how many test intervals you still have available. You will receive information about the current charge level of the battery and the date of the last battery change. It also provides information on when the battery has reached its expiry date and needs to be replaced.



If you press the small arrow next to "Self-Test-Report" on the right-hand side of the start screen, you will be taken to this display.
Here you can see the result of a self-test.
You can see when and where this test was carried out and you can see further information about the device.

For devices with DSC:
If you click on the "+" symbol next to Motherships on the right-hand side of the start screen, you will be taken to this display or this input screen:

Here you can enter the MMSI number of your DSC radio.
In addition, up to a total of 7 different MMSI numbers can be programmed.

	If you tap on one of the MMSI numbers already programmed on the start screen, the dialogue prompt to confirm the deletion of this number appears. **Attention:** The first "mothership" in the list is used for test operation. This number should be your own number. This number should therefore not be deleted. Note: Reduce the number of motherships as far as necessary to extend the running time of the device.
	If you tap on a displayed date in ACTIVATIONS on the start screen, you will see this display. You can see the activation or deactivation time. This is also displayed graphically on a map.

	If you press "DISCONNECT" on the start screen, you disconnect the Bluetooth connection, and the rescue transmitter automatically exits Bluetooth mode.

15.1.2 Annotation

Too many active Bluetooth devices in the immediate vicinity, such as smartwatches, fitness trackers, etc., may cause problems when establishing a Bluetooth connection with the rescue transmitter. In this case, it often helps to repeat the connection attempt (press "Connect" again as instructed by the app).
Otherwise, please switch off the Bluetooth on your mobile device. Also deactivate Bluetooth on all other devices in your environment. Then switch Bluetooth on again on your mobile device and restart programming.
Please limit the number of Bluetooth connections to the minimum necessary in order to maximise the battery life of the device in an emergency.
It is also a good idea to restart your mobile phone regularly.

15.2 Iridium® modem - activation

Once you have purchased the easyRESCUE-SAT-MOB and have it in your hands, the Iridium ® modem is already registered and activated for the following 5 years to be ready in case of emergency

Note: There is also a magnetic release mechanism that is always active, regardless of the slider position. This ensures activation even when the slider is set to "disarmed".

16 Technical Data

16.1 General

Description	Value
Housing dimensions **(incl. Antenna)**	130mm x 70mm x 35mm 280mm x 70mm x 35mm
Weight	275 Grams
GNSS receiver	Up to 3 different GNSS constellations
Operating time (activated)	
Battery	96h at -20°C (depending on iridium reception)
Battery life	In accordance with SOLAS certification SART: 5 years MOB: 7 years
Operating temperature range	-20°C to +60°C
Storage temperature range	-55°C to +85°C
Displays	6x LED
Control elements	1x slider 3x buttons

16.2 AIS

Description	Value
Frequencies	AIS 1: 161,975 MHz AIS 2: 162,025 MHz
Transmission power	>= 1 W radiated power
Supported AIS messages in transmission mode	
easyRESCUE-SAT-SART	Msg.1: AIS position report is sent • 6-8 times per minute • Unit ID: 9-digit identification number • Speed over ground (SOG) • Course over ground (COG) • GNSS-Position
	Msg.14: AIS safety message is sent • 2 times every 4th minute • Unit-ID • Text: "SART ACTIVE" after activation in an emergency • Text: "SART TEST" in TEST mode
	MMSI: 970xxxxxx

easyRESCUE-SAT-SART-PRO	Msg.1: AIS position report is sent • 6-8 times per minute • Unit ID: 9-digit identification number • Speed over ground (SOG) • Course over ground (COG) GNSS-Position
	Msg.14: AIS safety message is sent • 2 times every 4th minute • Unit-ID • Text: "SART ACTIVE" after activation in an emergency Text: "SART TEST" in TEST mode
	MMSI: 970xxxxxx
easyRESCUE-SAT-MOB	Msg.1: AIS position report is sent • 6-8 times per minute • Unit ID: 9-digit identification number • Speed over ground (SOG) • Course over ground (COG) GNSS-Position
	Msg.14: AIS safety message is sent • 2 times every 4th minute • Unit-ID • Text: "MOB ACTIVE" after activation in an emergency • Text: "MOB TEST" in TEST mode
	MMSI: 972xxxxxx

Fulfilled standards	IEC 61097-14, IEC 60945, ITU-RM.1371-5, IMO Res. MSC.246(83), IEC 61108-1

16.3 DSC

Only for devices with DSC functionality, such as

- easyRESCUE-SAT-SART-PRO
- easyRESCUE-SAT-MOB

Description	Value
DSC operation	"Closed loop" and "open loop" pursuant to RTCM 11901.1
Frequencies	DSC Frequency: 156.525 MHz
Transmission Power	0.5 Watt
Operation Time (activated)	In common operation of AIS & DSC: up to 24 hours

16.4 Iridium®

Description	Value

Frequencies	1616-1626 MHz
Iridium® Network	Iridium® 9603 SBD Modem • Global Coverage • Latency < 1 Minute
Contents of the Iridium® emergency message	• Distress Type • Fix Time • MSG Type • LAT • LONG • Position Type • Course • Speed • ID • Distress Time • Reliability Flag every 5 minutes until the satellite feedback is received. After receiving the satellite feedback, the system switches to a 15-minute interval
Receiver of the Iridium® emergency message	• MRCC (selection by geolocation) • Own selection (IP, email, IMEI Iridium®)
Fulfilled standards	IEC 63269 EN 303132 IEC 60945

17 Troubleshooting

Symptom	Possible Cause	Remedy
"TEST" LED is blinking but the "GPS" LED has not started blinking even after 5 minutes.	No GPS reception	The easyRESCUE needs a GPS signal to perform the test, which may be difficult to receive in some circumstances. Therefore, it would be best to perform the test outdoors. If the same error occurs again, please return the device to your distributor.
The device cannot be turned on.	Battery is too low	The battery pack is designed for 5 years' lifetime with several function tests (up to 30 tests). After this time the device must be returned to the distributor to have the battery pack replaced. Only the distributor

		is entitled to do this!
The Rescue Transmitter is not displayed on the plotter	Old firmware of the plotter	Older plotters or those with old firmware may in some cases interpret the AIS SART messages incorrectly. Please contact the manufacturer of your plotter.
The Rescue Transmitter is not received by my own system	Overdriving of the receiver	The Rescue Transmitter is located too close to the receiver. Try to observe a distance of > 20 m from the receiver or wind the antenna of the Rescue Transmitter around the housing. This minimizes the radiated power.

18 Maintenance

The following maintenance and inspection are mandatory for the easyRESCUE family of rescue transmitters:

After 6 months, but at the latest after 12 months, the device should be activated in TEST mode by pressing the "TEST" button. The battery unit must be replaced after 5 years (SOLAS specification). The exact expiry date can be found on the label on the back of the device.

This replacement can only be carried out by qualified distributors.

The device is maintenance-free under normal operating conditions. However, regular checks are recommended:

• Check all cable connections and antenna mounts every 6 months for corrosion or damage.

• Check the correct AIS message transmission at least once a year using monitoring software.

• Only update the configuration or firmware with official software versions from the manufacturer.

Repairs may only be carried out by authorised service personnel.

18.1 Cleaning

The housing can be cleaned with a soft, dry or slightly damp cloth if necessary. Do not use aggressive cleaning agents, solvents or abrasives, as these can damage the housing surface. Before cleaning, make sure that the device is disconnected from the power supply.

18.2 Decommissioning and Disposal

18.2.1 Decommissioning

Disconnect the power supply and all connected antennas. Remove the device from its mounting location.

Before storage or disposal, delete all configuration data (MMSI, position data, etc.) using the configuration software to prevent misuse of the data.

Store or dispose of the device in accordance with local regulations.

18.2.2 Disposal

This device must not be disposed of with household waste. Dispose of the product in accordance with Directive 2012/19/EU (WEEE) and local environmental regulations at an authorised collection point for the recycling of electrical and electronic equipment.

If possible, separate different materials (e.g. metal housing, plastic parts, electronic circuit boards) and dispose of them in the appropriate recycling stream.

19 Declaration of conformity

Weatherdock AG hereby declares that the easyRESCUE radio system complies with the applicable directives.

The full text of the EU Declaration of Conformity is available at the following Internet address:

https://www.easyais.com/en/declaration-of-conformity/

20 Contact and product support

Although Weatherdock AG always endeavours to edit all publications with the utmost accuracy, these instructions may contain errors or ambiguities. In addition, changes to these instructions are the sole responsibility of Weatherdock and may be made without notice.

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21 Licence agreement

By using products from the easyRESCUE SAT product range, you agree to the terms of the following warranty agreements. Please read this agreement carefully.

Weatherdock AG grants you a limited licence to use the device in the normal operation of the product. Title, ownership rights and intellectual property rights in and to the software remain with Weatherdock AG.

22 Warranty

Weatherdock AG warrants this product against defects in materials and workmanship for a period of 2 years from the date of purchase. Within this period, Weatherdock AG will, at its sole discretion, repair or replace components found to be defective in normal use. Repairs or replacements will be made without charge for parts or labour. However, the customer shall bear the shipping costs. This warranty does not apply to misuse, abuse, accidents or unauthorised modifications or repairs.

The warranties and rights contained herein are exclusive and are in lieu of all other warranties and/or laws, express or implied, including any statutory or other liability arising from any warranty of merchantability or fitness for a particular

purpose. This warranty gives you specific legal rights depending on the country. In no event shall Weatherdock AG be liable for any incidental, special, indirect or consequential damages arising out of the use or inability to use the product or any defect in the product. Weatherdock AG reserves the sole right to repair or replace the device or software or to refund the purchase price. This right is your sole and exclusive right in the event of a warranty claim.

Products purchased in online auctions do not entitle the buyer to discounts or to take advantage of special offers from Weatherdock AG. Purchase confirmations from online auctions are also not recognised as proof of warranty claims. An original proof of purchase from the dealer is always required to satisfy warranty claims. Weatherdock AG will not replace any missing device or accessory parts in products purchased in online auctions. In the event of a warranty claim, please contact your Weatherdock AG dealer. They will coordinate the further procedure with you. In the event of shipping, pack the device carefully and send it with sufficient postage to the address given to you by your dealer. For warranty repairs, always enclose a copy of the original purchase receipt as proof of ownership. The easyRESCUE SAT-MOB rescue transmitter from Weatherdock AG does not contain any parts that can be repaired by the user. If a problem occurs with your device, please contact your dealer. Any attempt to open,

alter or modify the device will invalidate the warranty and may irreparably damage the device.

Opening the device by an unauthorised person will invalidate the warranty! Please contact your authorised dealer.

CAUTION:

It is the sole responsibility of the user to use the rescue transmitter carefully. By triggering an AIS distress signal, you inform the neighbouring ships or coastal radio stations within AIS range of your distress at sea and your position.

23 Index

weather dock AG

EXCELLENCE IN RADIO TECHNOLOGIES

Safety • Navigation • Tracking