



# SMRT ALERT

## PRODUCT USER MANUAL

**AIS**

**VHF**  
**DSC**

**M**  
CLASS-M

**GNSS**

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# INTRODUCTION

This user manual provides all the information required to operate and test the sMRT ALERT. The following symbols and conventions are used to indicate important information. Always observe these instructions. Ensure you read the warnings & safety information section of this manual before first use of the device.



**WARNINGS:** Instructions that, if ignored, could result in death or serious personal injury caused by incorrect operation of the equipment. These must be observed for safe operation.



**CAUTIONS:** Instructions that, if ignored, could result in personal injury or material damage caused by incorrect operation of the equipment. These must be observed for safe operation.



**IMPORTANT NOTES:** Important instructions that should be adhered to during system operation.

## TYPOGRAPHIC CONVENTIONS

1. sMRT ALERT hardware features are displayed in bold upper case letters e.g. **ARMING SWITCH**.
2. Operation status is displayed in bold upper case letters with square brackets, e.g. **[OFF]**.

## USING YOUR sMRT ALERT FOR THE FIRST TIME

Prior to first use, please ensure that you have fully read and understand the user manual and that you perform a full system test, detailed on Page 18.



**WARNING:** sMRT ALERT record of ownership. As a responsible manufacturer of life saving man overboard devices, the manufacturer maintains an ownership registration database to provide contact details to Government Search and Rescue (SAR) authorities in the event of an emergency.



**CAUTION:** The sMRT ALERT should only be used in an emergency. **DELIBERATE MISUSE MAY INCUR A SEVERE PENALTY.**

# GLOSSARY OF TERMS & ACRONYMS

## Aa

**Ack** – Acknowledgment

**AIS** – Automatic Identification System

## Cc

**Class-M** – MOB class for DSC marine radio communications

## Dd

**DSC** – Digital Selective Calling

## Ee

**ECDIS** – Electronic Chart Display and Information System

**EPIRB** – Emergency Position Indicating Radio Beacon

## Ff

**FCC** – Federal Communications Commission

## Gg

**Galileo** – European Union satellite system

**GNSS** – Global Navigation Satellite System

**GPS** – Global Positioning System

## Ii

**IS** – Intrinsically Safe

## Ll

**LED** – Light Emitting Diode

## Mm

**MAYDAY** – Voice distress priority message

**MF** – Medium Frequency

**MHz** – Megahertz

**MMSI** – Maritime Mobile Service Identity

**MRT** – Marine Rescue Technologies

**MSLD** – Maritime Survivor Locating Device

**mW** – Milliwatt

## Pp

**PFD** – Personal Flotation Device

## Rr

**RTCM** – Radio Technical Commission for Maritime Services

**Rx** – Radio receiver

## Ss

**SAR** – Search & Rescue

**Serial Number** – Manufacturer's identification number

**SOLAS** – Safety Of Life At Sea

## Tt

**Tx** – Radio Transmitter

## Vv

**VHF** – Very High Frequency

## Ww

**W** – Watt

# WARNINGS & SAFETY INFORMATION



## WARNINGS:

- The sMRT ALERT is a local area Maritime Survivor Locating Device (MSLD), that transmits emergency messages via VHF DSC and the wearer's GNSS position via AIS.
- Before first use, perform a full system test to confirm that the device functions correctly.
- Once fitted into a PFD, a full system test of the sMRT ALERT should be performed every 3 months. Do not test the device more than once per month to avoid affecting battery performance in an emergency.
- The unit must only be operated in a marine emergency distress situation. It should never be used on land or when not in danger.
- The sMRT ALERT should **ONLY** be used in an emergency. It is not intended for routine tracking of persons or property. **DELIBERATE MISUSE MAY INCUR A SEVERE PENALTY.**
- Annual inspection and recertification of the sMRT ALERT by an authorised service partner is recommended every 12 months to ensure optimum performance.
- The sMRT ALERT must be serviced by an authorised service partner every 5 years.
- Do not dismantle the sMRT ALERT as it contains no user serviceable parts. Authorised service partners offer a full and comprehensive service and repair facility for recertification of units and battery replacement.
- The high intensity strobe light on the unit may cause discomfort if it is viewed for long periods. Avoid staring directly at it when operational.
- The sMRT ALERT uses positional data derived from its internal GNSS antenna to define the location of a man overboard. A clear view of the sky is required to obtain a GNSS position.
- Please note that the device is only as accurate as the positional data it receives.
- The sMRT ALERT contains lithium batteries; do not puncture, deform, short circuit, recharge or incinerate the sMRT ALERT. Doing so will VOID the product warranty.
- Avoid handling the antenna unnecessarily when activated.

- The sMRT ALERT must only be fitted to PFDs approved by the manufacturer.
- Only manufacturer approved and supplied attachment kits are to be used to fix the unit to the PFD.
- It is the user's responsibility to ensure that any ancillary equipment, such as survival suits/harnesses, PPE, belt pouch, clothing etc., do not interfere with the operation of the sMRT ALERT.
- The sMRT ALERT will not float. Please ensure the unit is securely tethered when near water to prevent loss.
- To avoid damaging or losing the device, please ensure that it is securely tethered using the fixing point on the rear of the unit.
- Do not put the device in the carry pouch when mounted in a life jacket.

**CAUTIONS:**

- Do not paint the sMRT ALERT or clean it with aggressive detergents or solvents. Some cleaning materials may damage the seals and affect the integrity of the device. This will VOID the product warranty.
- To ensure the sMRT ALERT operates as intended in an emergency:
  - Avoid dropping the unit
  - Avoid leaving the unit in direct sunlight, or in an environment where it will be exposed to high temperatures.
  - Inspect the device periodically for signs of wear and tear, visible cracks or other damage.

If any damage is found, **DO NOT USE** and contact an authorised service partner.



# INTRODUCTION

The sMRT ALERT is a multi-system Personal Locating Device designed to RTCM Standard 11901.1 and EU standard EN 303 132 for use during a man overboard (MOB) emergency.

The integration of VHF DSC and AIS technologies equips mariners in distress with life-saving technology to vastly improve the likelihood of rapid location and recovery by a vessel or Search and Rescue (SAR) authorities.

## HOW THE sMRT ALERT WORKS

The sMRT ALERT uses the marine VHF radio band to transmit DSC distress alerts and updated GPS positions regularly from the casualty in the water to VHF DSC radios, as well as AIS equipped vessels within range. A short delay period prior to activation is designed to avoid the device being activated accidentally.

The sMRT ALERT transmits AIS and emergency VHF DSC transmissions during activation. The sMRT ALERT uses an internal GPS receiver to acquire a position within one minute of activation. The device then sends VHF DSC and AIS transmissions containing the device's current position.



### Audible Alarm

The audible alarm notifies when the unit is alerting and raises awareness in case of false activation



### MOB Location via AIS

The location of the MOB is regularly updated and displayed on an AIS enabled device.



### Test Functionality

Test functionality ensures that the device is in good working order and highlights any faults



### Dual Activation Methods

The device can be activated manually or automatically upon immersion in water for more than 2 seconds



### Visual DSC Acknowledgement

LEDs indicate that the DSC distress signal has been received and acknowledged by a third party



### Dual GNSS Receivers

Dual GPS and Galileo GNSS receivers for accelerated location detection



### Class M

Compliant to European regulation ECC/DEC/(22)02 relevant to the usage of MOB devices



### Alert Signal via VHF DSC

All nearby vessels are automatically alerted to the man overboard situation via VHF DSC

# WHAT'S IN THE BOX?

- A** sMRT ALERT
- B** Life Jacket Bladder Attachment Clip
- C** Oral Tube Mounting Clip
- D** Carry Strap
- E** Carry Pouch
- F** Tether Line (not pictured)





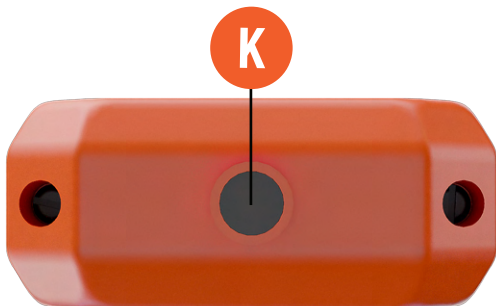
# FEATURES

- A** Antenna
- B** Lanyard Attachment Point
- C** Strobe Light
- D** TEST Button
- E** Arming Door
- F** Left LED
- G** Right LED
- H** ON/OFF Button
- I** GNSS Zone (inc GPS & Galileo)
- J** NFC Zone
- K** Water Sensor



## LANYARD ATTACHMENT POINT

The lanyard attachment point on the rear of the device allows for the tether to be passed through and tied securely.



## WATER SENSOR

The water sensors are located both on the bottom and the top of the sMRT ALERT. The unit must be immersed in water for a minimum of 2 seconds to activate.

## DEVICE LABEL

The rear of the unit features a label indicating all relevant device and safety information as well as compliances. Please make sure you are familiar with the information displayed.



**AIS**

**AIS** – The location of the MOB is regularly updated and displayed on an AIS enabled device.

**VHF DSC**

**VHF DSC** – All nearby vessels are automatically alerted of the man overboard situation via DSC

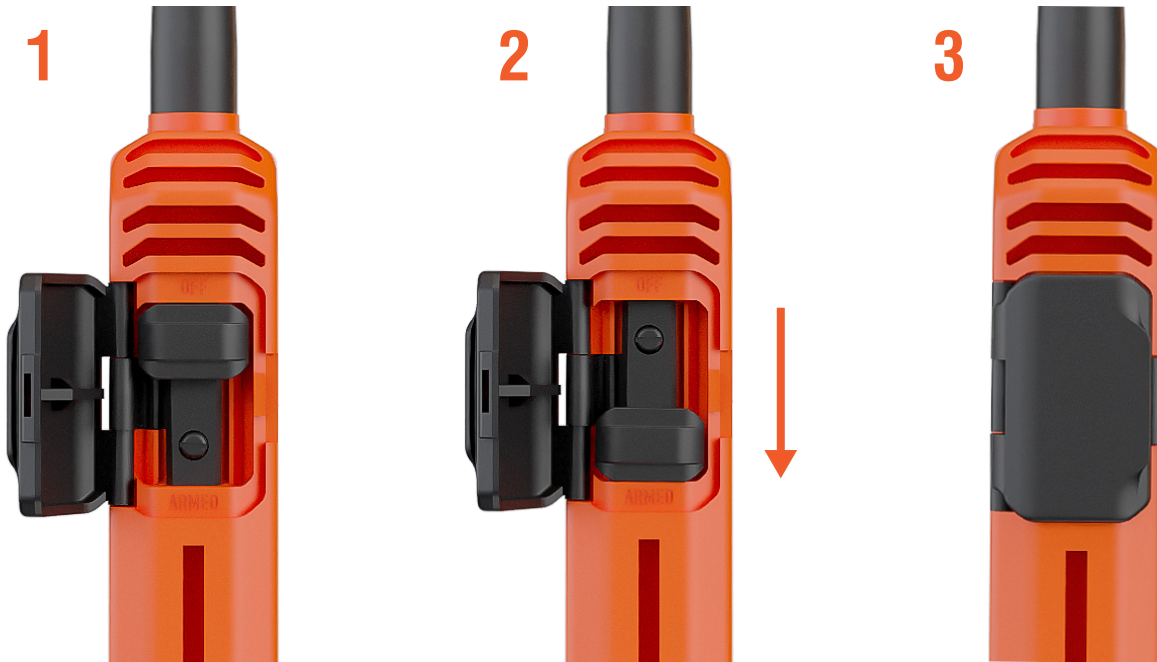
**M**  
CLASS-M

**Class M** – Compliant to European regulation ECC/DEC/(22)02 relevant to the usage of MOB devices

**GNSS**

**GNSS** – Combines both GPS & Galileo GNSS receivers for accelerated detection

# HOW TO ARM THE DEVICE



1. The beacon is shipped **[OFF] [UNARMED]**.
2. Begin by opening the **DOOR COVER**, which is located on the side of the beacon.
3. Then slide the **ARMING SWITCH** down to the **[ARMED]** position.
4. Finally, close the **DOOR COVER** to keep the switch securely in position.

We recommend that when not in use that the device is **[OFF]**.

# HOW TO ACTIVATE THE DEVICE



To activate the sMRT ALERT please follow the steps below.

1. Ensure the device is **[ARMED]**
2. Press the **ON BUTTON** for 1 second
3. -OR- Immerse in water for 2 seconds



**IMPORTANT NOTE:** For optimal performance of automatic water activation, it is advised that the device be removed from any pouches and completely immersed in water for a minimum duration of 2 seconds.

# HOW TO DE-ACTIVATE THE DEVICE



1. Press and hold the **ON BUTTON** down for 3 seconds. -OR-
2. Open the **ARMING DOOR** and slide the **ARMING SWITCH** from **[ARMED]** to the **[OFF]** position. This will stop all transmissions.
3. Simply acknowledge the VHF DSC alert on any radio that has received it. This will acknowledge the emergency but the beacon will continue to broadcast its position on AIS until it is manually de-activated.
4. Contact the Coast Guard or Search and Rescue Coordination Centre serving your region at the earliest possible opportunity to advise them that you have cancelled the alert. We advise that this broadcast is made on Channel 16 for VHF or 2182 for MF.



**IMPORTANT NOTE:** If you do not have access to a VHF marine radio, contact your search and rescue authority by telephone and AIS transmissions containing the casualty's current position.

## PREVENTION OF ACCIDENTAL ACTIVATION

The sMRT ALERT features an **ARMING DOOR** to prevent the device from being accidentally activated. In addition, manual activation is a two-stage process, requiring the user to open the **ARMING DOOR** and slide the **ARMING SWITCH** to the **[ARMED]** position to arm the device. The user must then press the **ON BUTTON** to activate the device.

If the device is accidentally activated, the user can slide the **ARMING SWITCH** to **[OFF]** before transmissions commence.













### HOW TO HELP PREVENT FALSE ALARMS






- Keep the device away from young children and educate all users in device operation and the ramifications of false alarms.
- Ensure that the device is stored in a dry and cool environment.



# sMRT ALERT LED INDICATIONS

During operation, the **LEFT LED** indicates device status and the **RIGHT LED** indicates GPS status. The **LEDs** may display the following indications:

STATE	LEFT LED	RIGHT LED
Arming (good battery)	Green 3 flashes 	Green 3 flashes 
Arming (bad battery)	Red 3 flashes 	Red 3 flashes 
Return to idle	Red 1 flash 	Red 1 flash 
Alerting (no GNSS)	Purple slow flash 	Off
Alerting (GNSS lock)	White slow flash 	Off
Alerting (DSC rx'd)	Green slow flash 	Green solid 
Alert cancelling	Red 1 flash 	Red 1 flash 

STATE	LEFT LED	RIGHT LED
Fault: internal scheduler fault	Red fast flash 	Off
Fault: service interval	Red fast flash 	White slow flash 
Fault: battery critical	Red fast flash 	Purple slow flash 



**IMPORTANT NOTE:** If you receive a fault during the test procedure. DO NOT USE and contact an authorised service partner

# TESTING

A full system test is performed on the sMRT ALERT, at the point of manufacture. Before first use, we recommend carrying out a full self-test on the product.

After deployment into active service, it is recommended that a full system test of the sMRT ALERT should be performed every 3 months. DO NOT test the device more than once per month as this could affect battery performance in an emergency.

For optimum performance, it is recommended that the device be returned to an authorised service agent for annual service and recertification.



## **WARNINGS:**

1. Ensure the device has a clear view of the sky during testing to receive a GPS signal.
2. If the sMRT ALERT fails any element of a self-test or any full system test, take it out of service immediately.

SYSTEM TEST

To perform a test of the sMRT ALERT ensure the **ARMING SWITCH** is **[OFF]** and the hold the **[TEST]** button for more than 3 seconds.

Self-test **LED** indications are displayed for several seconds at this point and may display as follows: Short beeps (approx every 15-20 seconds).

The **LEFT LED** indicates device test status and the **RIGHT LED** indicates GPS test status.

STATE	LEFT LED	RIGHT LED
Test start (good battery)	Green solid ●	Green solid ●
Test start (bad battery)	Red solid ●	Red solid ●
Test start/waiting for GNSS lock (good battery)	Green slow flash alt ●	Green slow flash alt ●
Test start/waiting for GNSS lock (bad battery)	Red slow flash alt ●	Red slow flash alt ●
Test txing (AIS burst)	Purple fast flash alt ●	Purple fast flash alt ●
Test txing (DSC)	Purple fast flash alt ●	Purple fast flash alt ●



**IMPORTANT NOTE:** If you cannot acknowledge the DSC the test procedure is now complete. The test will automatically time out after 5 minutes or hold the T button to end.

Test (waiting for DSC ack)	White slow flash ○	Off
Test (DSC ack rx'd)	Green 3 flashes ●	Green solid ●
Test time out	Red 5 flashes ●	Red solid ●

**Ack** = acknowledgment

**Alt** = alternating

**Rx'd** = received

**Txing** = transmitting

## FULL SYSTEM TEST

1. The **LED** indicators shows battery condition **[GREEN]** is good, **[RED]** means replace the battery. During stage 1 the GNSS is activated to look for satellites.
2. The AIS test burst is transmitted — **LED** indicator is purple.
3. The DSC test message is transmitted — **LED** indicator changes to white.
4. The beacon waits for a DSC acknowledgement for up to 2 minutes — **LED** indicator is white
5. When a DSC acknowledgement is received the **LED** indicator turns green indicating **[SUCCESS]**.



**IMPORTANT NOTE:** During any test, if a fault is encountered, the device should be removed from service and returned to the manufacturer or an authorised service agent. If the **LEDs** do not show **[RED]**, the unit has passed the VHF DSC & AIS test and is fit for purpose.

During the test procedure a single burst AIS and VHF DSC message is transmitted in accordance with the international standards. Depending on conditions during testing, it is possible that an AIS and/or VHF DSC transmission may not be picked up by the receiving equipment.

If an AIS message and/or VHF DSC transmission is not displayed on the receiver this does not indicate that the device is faulty. Only when and if a fault is encountered, should the device be removed from service and returned to the manufacturer or an authorised service agent.

## CANCEL A FULL SYSTEM TEST

Press and hold the **TEST BUTTON**.

# LIFE JACKET ATTACHMENT

The sMRT ALERT is designed to integrate seamlessly in most life jackets. However, always refer to your life jacket manufacturer's guidelines for any specific installation requirements.

The below provides an overview of how to ensure the ALERT is correctly installed before use.

- When installing inside a life jacket, ensure the beacon is securely fastened to a secure attachment point using the provided lanyard to prevent loss.
- Only use manufacturer-supplied attachment clips when fixing to the life jacket.
- Always ensure that the beacon is **ARMED** before use. This ensures the device is ready to activate when needed.
- Once complete, check that the water sensor lead is not obstructed and will deploy.



When attaching to a life jacket, ensure the following actions are taken for correct use:

- ✓ Attach the lanyard
- ✓ Mount the beacon securely
- ✓ Check the beacon is armed



**WARNING:** The sMRT ALERT will **activate** if its water sensor pins are submerged for **2 seconds**. It will **NOT activate** automatically upon life jacket inflation unless submerged. If the beacon does not make sufficient water contact, manual activation is required.

# RECERTIFICATION AND SERVICING

We recommend annual recertification to ensure the sMRT ALERT operates effectively in a lifesaving situation. Do not use your sMRT ALERT if there are any signs of damage, or if any functional tests fail – **RED LED**. The manufacturer and authorised service agents provide a comprehensive service and repair facility for recertification of units. A list of servicing partners can be found at [smrtsos.com](http://smrtsos.com).

## RETURN UNITS FOR RECERTIFICATION & SERVICING

Please contact the manufacturer at [mrtcustomerservice@wescom-group.com](mailto:mrtcustomerservice@wescom-group.com), or your authorised service agent, to obtain an RMA tracking number for any units being returned for recertification and servicing. Record the RMA number and include it when returning units as it is used to track the device during the servicing and recertification process.

## OPERATIONAL LIFE

The sMRT ALERT has an operational battery life of 5 years from the first use. When not in use, the product should be disarmed. We recommend annual recertification to ensure optimum performance.

## END OF LIFE STATEMENT

The manufacturer hereby declares that all materials, components and products supplied are in full compliance with RoHS & WEEE directives. At the end of the products operational life it must be returned to the manufacturer for safe disposal. If you are unable to return the unit then it must be disposed of according to local laws and regulations.

## CHANGING CONTACT DETAILS OR OWNERSHIP

Factory assigned device MMSI numbers are allocated to sMRT ALERT units prior to shipping. It is the owner's responsibility to advise the manufacturer of any change of contact details or ownership of a sMRT ALERT.

If ownership is transferred, you should contact the manufacturer or an authorised service partner to register the device in your name.



# sMRT MOBILE APP



The 'sMRT Beacon Management' app can assist you in managing your sMRT device. Please refer below for instructions on some of the key features.

## CHECK BEACON STATUS

Quickly check the arming status of your device.

1. Press the **BEACON STATUS BUTTON** on the app home screen.
2. Press the **SCAN DEVICE BUTTON** on the NFC screen. When prompted, hold your phone up to the device and wait for the scan to complete.
3. Once complete, you will be shown a screen that will display the status of your beacon, which will either say **[ARMED]** or **[OFF]**.

This feature only applies to the sMRT ALERT and may not work with other devices.

## SELF-TEST DEVICE

Perform a test and view the historical results of your device. Please note that whilst the test is ongoing you can not use the NFC scanning function. This will take approximately 5 minutes and will then be ready to use.

1. Inside the product screen, press the **TEST STATUS BUTTON**.
2. Press the **SCAN DEVICE BUTTON** on the NFC screen. When prompted, hold your phone up to the device and wait for the scan to complete.
3. You will be prompted to complete the NFC process again; please repeat step 2.
4. Once completed, your most recent test will appear at the top of the list, with all your previous results below. It will display a colour-coded summary, with red indicating **[FAILURE]** and green indicating a **[PASS]**.
5. You can inspect each test individually by pressing the arrow on the right of the tabs. This will provide you with a more detailed report of your test.

## CHECK BATTERY LEVEL

View and understand your device's current battery levels.

1. Inside the product screen, press the **BATTERY STATUS BUTTON**.
2. Press the **SCAN DEVICE BUTTON** on the NFC screen. When prompted, hold your phone up to the device and wait for the scan to complete.
3. You will be prompted to complete the NFC process again; please repeat step 2.
4. You will then be shown a screen, which will display the battery level of your device. The status shown will either say **[GOOD]** or **[SERVICE REQUIRED]**, at which point you should **NOT** use the device.

If the battery test indicates less than 12 hours of battery life remaining, return the device to the manufacturer or an authorised service agent for battery replacement.

**DO NOT** ignore a low battery warning as the device may not operate to full capacity in a man overboard emergency.

## INPUT MMSI NUMBERS

Pair your vessels MMSI number with your device.

1. Inside the product menu screen, press the **PAIRED MMSI BUTTON**.
2. Press the **SCAN DEVICE BUTTON** on the NFC screen. When prompted, hold your phone up to the device and wait for the scan to complete.
3. Once completed, you will be directed to the Add Vessel MMSI screen. On first use, you will be prompted to type in your MMSI number and press the **ADD BUTTON** to pair your MMSI number.
4. The NFC screen will re-open and you will need to repeat step 2 twice. Once completed, your new MMSI number will show on screen and say **[PAIRED]**.
5. If you wish to remove a paired number, simply press the **BIN ICON** and repeat step 2 twice. Please note you can only add 1 MMSI number to your device.

# WARRANTY

Your sMRT ALERT is covered by a warranty against manufacturing defects in materials and workmanship for a period of 1 year from the date of purchase and an additional 4 years upon registration of the extended warranty, in accordance with the following conditions:

- Marine Rescue Technologies Ltd reserves the right to repair or replace a faulty product at its discretion, free of charge, excluding shipping costs.
- A valid proof of purchase from the original buyer is required for warranty claims.
- Claims must be submitted in writing to Wescom Group or an approved service partner. A list of servicing partners can be found at [smrtsos.com](https://smrtsos.com).

Marine Rescue Technologies Ltd is not liable under the warranty for:

- Repairs or modifications performed on the MSLD using non-approved parts, including batteries, or by entities other than Marine Rescue Technologies Ltd or approved service dealers, a full list of approved dealers can be found on the sMRT website, [smrtsos.com](https://smrtsos.com).
- Parts, materials, or accessories not manufactured by Marine Rescue Technologies Ltd; in such cases, the consumer will be covered by the guarantee/warranty offered to Marine Rescue Technologies Ltd by the manufacturer or supplier.
- Unpaid products or those under alternative warranty agreements

The battery is warranted until the expiry date, provided the unit is tested according to the information in the user manual

## EXCLUDED ITEMS

The following item is excluded from the warranty;

- The water sensor pin

This warranty does not impact your statutory rights. The interpretation of this warranty is under English law. Please ensure you have fully read and understand the User Manual.

For further assistance, please reach out to our service department.  
Email: [smrt@wescom-group.com](mailto:smrt@wescom-group.com)

## DISCLAIMER

The sMRT ALERT is an emergency rescue transmission device that should only be activated as a last resort. Misuse or false activation is unlawful and irresponsible, and could result in prosecution or penalty.

The sMRT ALERT should not be relied on as the only source of man overboard notification and the vessel owner, operator or master must exercise common prudence and good seamanship at all times. Use of the sMRT ALERT in no way reduces liability of the vessel's master and crew who have the primary responsibility for safety on board. No device is 100% fail safe, nor can it guarantee safe rescue in an emergency. When activated, the sMRT ALERT is designed to transmit distress alerts to VHF DSC and AIS equipped vessels or stations within range, but requires subsequent human interaction to acknowledge and respond to the distress alert.

When the unit is installed within a life jacket, it is the sole responsibility of the party performing the installation to ensure it is fitted correctly and does not interfere with the life jacket's operation. The manufacturer accepts no liability for improper installation or any issues arising from incorrect fitting.

Satellite GPS lock and in-water tracking is dependent on the extent of satellite system coverage and reception at the time and location of the emergency. The actual time and success of rescue is therefore dependent on all these contributing factors and as such, is outside the control of the manufacturer.

This user manual contains important information that must be adhered to for reliable use and operation of the product. It is the owner's sole responsibility to make the effort to read this manual and to ensure that the equipment's operation and limitations are understood. Visit the manufacturer's website [www.smrtsos.com](http://www.smrtsos.com) to download the latest user manuals for all products. The manufacturer reserves the right to change specifications, equipment, installation and maintenance instructions without notice as part of the company's policy of continuous product development and improvement.

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# TERMS & CONDITIONS

Please visit [www.smrtsos.com/terms-conditions](http://www.smrtsos.com/terms-conditions) to view our terms & conditions.

# SPECIFICATION

## GENERAL

BATTERY TYPE	9V Lithium battery
MINIMUM ALERTING PERIOD	Minimum of 12 hours at -20°C.
BATTERY SHELF LIFE AT +20°C	5 years
OPERATING TEMPERATURE	-20° to +55°C (-4° to +131°F) as per IEC 60945
STORAGE TEMPERATURE	-30° to +70°C (-22° to +158°F) as per IEC 60945
DIMENSIONS	207mm (H) (including antenna) x 59mm (W) x 23mm (D)
WEIGHT	180g
ENVIRONMENTAL	IEC 60945
STROBE LIGHT	30 candela, 170 degree dispersion, flash rate 12 /minute
ENVIRONMENTAL RATING	IP68 up to 10 metres depth
MOUNTING OPTIONS	Designed to integrate with a SOLAS approved life jacket
SELF ID	ITU-R M.585 Compliant factory programmed freeform Maritime Identity with 972 prefix
COMPASS SAFE DISTANCE	0.5m (1.5ft)
ALERTING RADIUS	Typically 5 NM

## AIS/VHF TRANSMITTER PACKAGES

ANTENNA TYPE	Vertically polarised
AIS Tx POWER OUTPUT	Nominal 1W EIRP
VHF TRANSMISSION FREQUENCIES	VHF DSC Channel 70: 156.525 MHz, AIS Channel 1: 161.975 MHz, AIS Channel 2: 162.025 MHz
VHF DSC Tx POWER OUTPUT	Nominal radiated power 500mW
SIGNALLING TYPE	AIS and VHF-DSC

## CONTROLS AND OPERATION

AUTOMATIC WATER ACTIVATION	After 2 seconds of water sensor immersion
MANUAL ACTIVATION	Once armed, press activate button

## GPS RECEIVER

GNSS RECEIVER TYPE	GPS and Galileo
TTFF (TIME TO FIRST FIX)	15 seconds (typical) with nominal GPS signal levels -130dBm
GNSS UPDATE RATE	Every minute

## VHF DSC AND AIS ALERTS

AIS	Within 30 seconds of GNSS position acquisition
INITIAL OPEN LOOP DSC ALERT	Within 30 seconds after activation
SUBSEQUENT OPEN LOOP DSC ALERTS	Every 5 minutes for the first 30 minutes, every 10 minutes thereafter until VHF-DSC acknowledgement or the battery expires.
FIRST DSC GPS DATA ALERT SENT	Immediately after GNSS position acquired

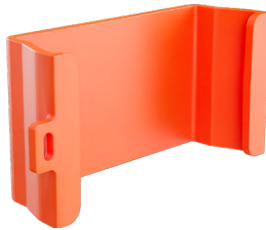


APPROVALS	
RED ARTICLE 3.1 (A)	IEC 62368-1:2018 EN IEC 62368-1:2020+ A11:2020 CSA/UL 62368-1:2019 AS/NZS 62368-1:2022
RED ARTICLE 3.1 (B)	EN 301 843-8 Draft: V1.1.1_0.0.5 EN 301 843-1 Draft: V2.3.1_0.0.8 EN 60945:2022
RED ARTICLE 3.2	EN 303 132 V2.1.1 IEC 63269:2022 IEC 61108-1:2003 EN 302 152-1 V1.1.1 EN 303 098 V2.2.1
RED ARTICLE 3.3 (G)	RTCM 11901.2:2022

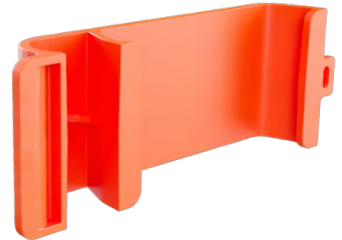
# PRODUCT ATTACHMENTS

**sMRT ALERT**

P/N: MOA-50070

**Bladder Attachment Clip**

P/N: 713020300

**Oral Tube Mounting Clip**

P/N: 713020301

**Carry Strap**

P/N: 713020321

**Pouch**

P/N: 713020322

**Tether**

P/N: 713000134

# NOTES

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