

# **sMRT ALERT**

The sMRT ALERT is an innovative man overboard (MOB) device that utilises AIS and VHF DSC to enhance localised MOB recovery. By incorporating app-based status checks along with audible and visual acknowledgements, it instils user confidence, while also harnessing automatic water-activated alerting.

With two-way signalling, automatic alerting, and real-time accurate location tracking, the sMRT ALERT is the trusted MOB solution.



## **VHF DSC**

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



## **AIS**

The live location of the man overboard is regularly updated and displayed via AIS



## **Dual GNSS**

Features both GPS & Galileo GNSS receivers for accelerated detection



## **Class-M**

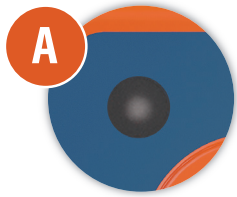
Compliant to European regulation ECC/DEC/(22)02 relevant to the usage of MOB devices



## **Mobile App**

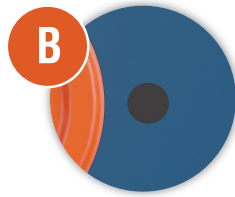
Mobile phone compatibility via NFC (Near Field Communication) and sMRT App

## PRODUCT FEATURES



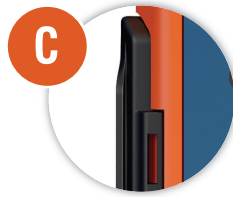
### STROBE LIGHT

High powered strobe light to aid visual identification



### COLOURED LEDS

LEDs change colour dependent on status of beacon



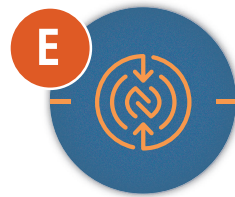
### ARMING DOOR

Swing door to prevent false arming and activations



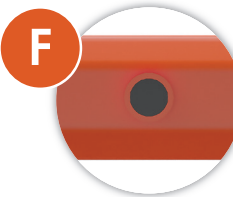
### GNSS ZONE

Equipped with Dual GNSS for accurate location



### NFC COMPATIBILITY

NFC area to connect device with the sMRT APP



### WATER ACTIVATION

Device will activate when immersed in water for 2 seconds



### Audible Alarm

Highlights activation to aid location and raise awareness of false activation



### Belt Pouch

A wearable neoprene belt pouch provides drop protection to prevent damage



### 5 Year Battery Life

Long term battery life with the confidence of a UK manufacturer's warranty



### Test Functionality

Manual and app based testing provides a status check on power and functionality



### Dual Activation Methods

Device can be activated manually or after immersion in water meaning it will still work if user is incapacitated



### Environmentally Conscious

Packaged in 100% recyclable materials & batteries only changed by an approved service centre



### Clipping System

Multiple fixing systems allows easy attachment and integration with life jackets



### Dual GNSS Receivers

Integrated GPS and Galileo receivers for accelerated location detection



### Water Proof

Designed to withstand submersion up to 10 meters, ensuring its protection against water damage

## WHAT IS A Class-M MAN OVERBOARD DEVICE?

A Class-M MOB (Man Overboard) device is an AIS-enabled device designed to comply with ECC/DEC/(22)02 regulations. From December 31, 2024, only Class-M compliant MOB's and Mobile Aids to Navigation (AtoN) will be allowed to operate on AIS channels 1 and 2 in countries adopting the regulation, ensuring these channels are reserved for emergency use. Non-compliant devices will be restricted to channel 2006, which is not monitored for emergencies.



GENERAL	
BATTERY TYPE	9.0V 1650mAh Lithium Manganese Dioxide (LiMnO2)
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 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
GNSS 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

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Pending FCC approvals, this product may not be sold or promoted in the United States