

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 the water-activated alerting capabilities of DSC (Digital Selective Calling).

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

Combines both GPS & Galileo GNSS receivers for accelerated detection



Class-M

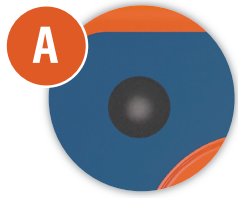
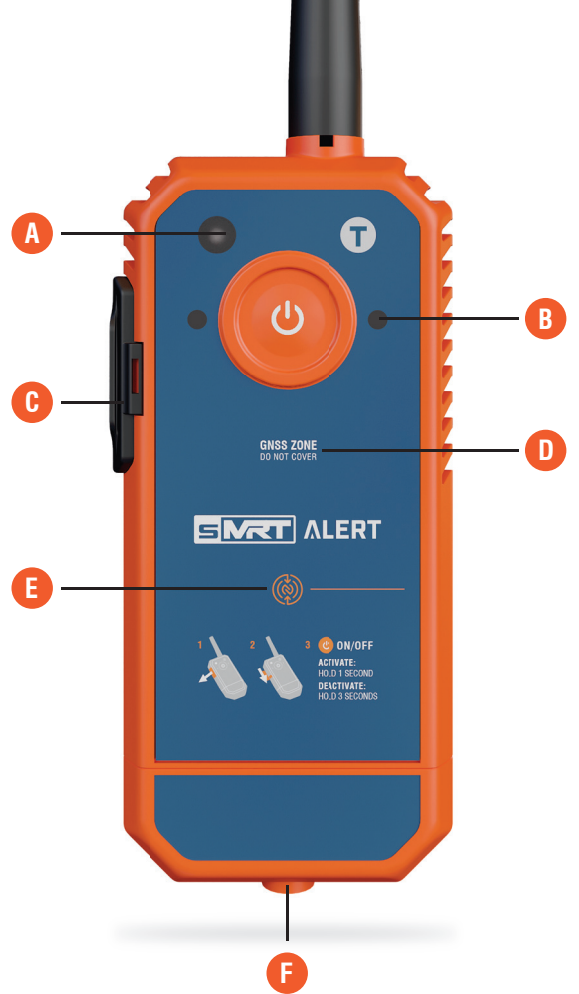
Compliant to European regulation ECC/DEC/(22)02 relevant to the usage of MOB devices



Mobile App

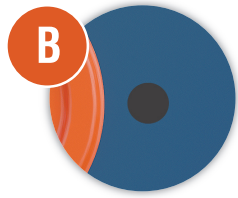
Mobile phone compatibility via NFC (Near Field Communication) and sMRT App

PRODUCT FEATURES



STROBE LIGHT

High powered strobe light to aid visual identification



COLOURED LEDs

LEDs change colour dependent on status of beacon



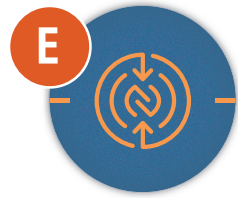
ARMING DOOR

Swing door to prevent false arming and activations



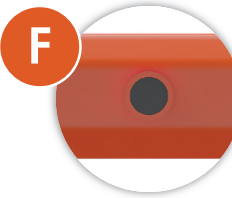
GNSS ZONE

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

Highlight activation to both aid location and raise awareness of false activation



Belt Pouch

Neoprene belt pouch provides drop protection and flotation capability to help protect the device



5 Year Battery Life

Ample power for both frequencies with the confidence of UK manufacturer's warranty



Test Functionality

Manual and app based device safety, providing a health 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 must be changed at an approved service centre to insure recycling



Clipping System

Rugged clipping system allows easy attachment options for life jackets



Dual GNSS Receivers

Dual GPS and Galileo GNSS receivers for accelerated location detection



Water Proof

The device is designed to withstand submersion up to 10 meters, ensuring its protection against water damage

WHAT IS A Class-M MAN OVERBOARD DEVICE?

To protect AIS from overloads caused by irrelevant off-ship devices, a new regulation, ECC/DEC/(22)02, has been approved and is scheduled to be implemented from December 2024. Under this regulation, in countries that adopt the Class-M standard, AMRDs (autonomous maritime radio devices, such as AIS MOB), will no longer be permitted to use AIS channels 1 and 2. Instead, they will be required to switch to channel 2006, which is not designated as an emergency channel.

Where ECC/DEC/(22)02 is adopted, non-compliant MOB will be prohibited to use/license.



GENERAL

BATTERY TYPE	9.0V 1500mAh Lithium Manganese Dioxide (LiMnO ₂)
BATTERY LIFE	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	137mm (H) x 62mm (W) x 26mm (D)
WEIGHT	212g
ENVIRONMENTAL	IEC 60945
STROBE LIGHT	30 candela, 170 degree dispersion, flash rate 12 /minute
ENVIRONMENTAL RESISTANCE	IP67
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	Up to 5NM (depending on height of antenna)*

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 plus 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

EUROPEAN APPROVALS	EN 303 132 V2.1.1**
US APPROVALS	RTCM 11901.1**

* Expected range derived from sea trials. Actual alerting range dependent on sea state, atmospheric conditions and height/altitude of receiving antenna.

** Approval is pending