

## **sMRT** V300

The sMRT V300 is an advanced, commercial grade, man overboard (MOB) device incorporating AIS, VHF DSC, and 121.5MHz technologies. It features water activation technology, audible and visual indicators, and offers multiple fixing options for life jacket integration.

With an increased signaling range and Class M compliance, the sMRT V300 ensures accelerated alerting and reliable location tracking over extended distances, improving the effectiveness and efficiency of rescue efforts during a man overboard incident.



### **VHF DSC**

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



### **121.5 MHz**

Features a low power homing signal to assist local and aerial rescue efforts



### **AIS**

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



### **Dual GNSS**

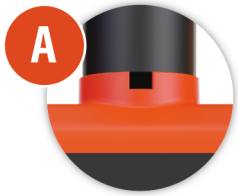
Combines both GPS & Galileo GNSS receivers for accelerated detection



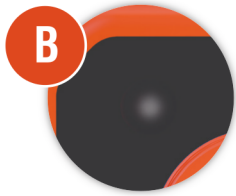
### **Class-M**

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

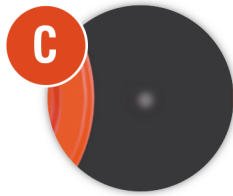
## PRODUCT FEATURES



**WATER ACTIVATION**  
Device will activate when immersed in water for 2 seconds



**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



**WATER SENSOR**  
Weighted water sensor lead ensures immersion in water



**Audible Alarm**  
Highlight activation to both aid location and raise awareness of false activation



**Water Sensor Lead**  
A weighted water sensor lead ensures that the device will automatically activate when worn inside a life jacket



**Annual Recertification**  
Yearly servicing by an approved SMRT service center ensures that the product is ready for use



**Test Functionality**  
Manual 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**  
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	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 60945:2002
STORAGE TEMPERATURE	-30° to +70°C (-22° to +158°F) as per IEC 60945:2002
DIMENSIONS	207mm (H) (including antenna) x 59mm (W) x 23mm (D)
WEIGHT	190g
ENVIRONMENTAL	EN 303 132 V2.1.1 clause 7, IEC 60945:2002
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.585-9 Compliant factory programmed freeform Maritime Identity with 972 prefix
COMPASS SAFE DISTANCE	0.5m (1.5ft)
ALERTING RADIUS	Typically 5NM

## AIS/VHF TRANSMITTER PACKAGES

AIR BAND FREQUENCIES	121.500 MHz
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 1W EIRP
SIGNALLING TYPE	AIS and VHF-DSC

## CONTROLS AND OPERATION

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

## GPS RECEIVER

GNSS RECEIVER TYPE	GPS and Galileo
TTFF (TIME TO FIRST FIX)	25 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 received 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 11901.2*

\* Approvals are pending



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