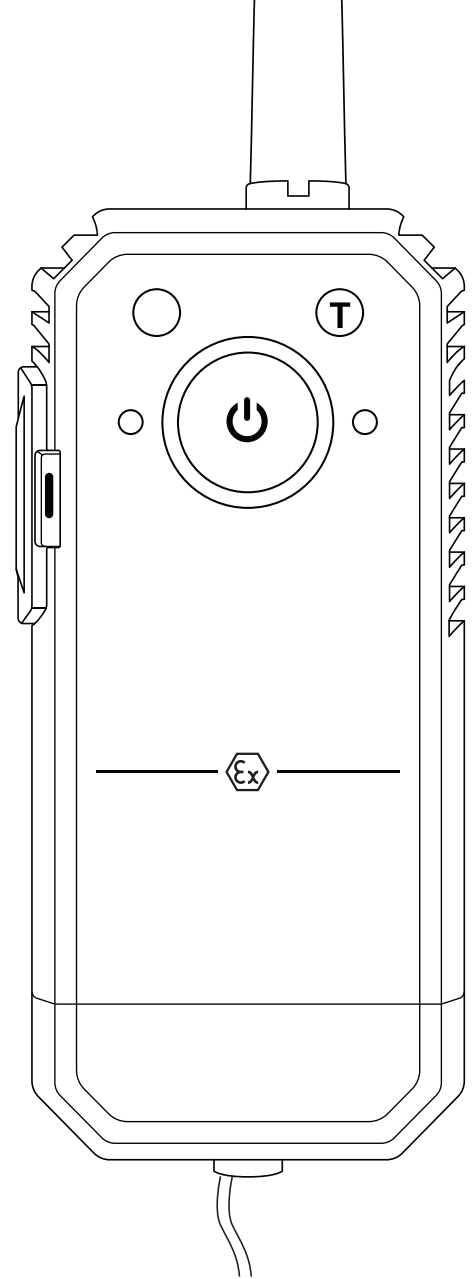


SMRT V300-X2

TECHNICAL DATA SHEET



IDENTIFICATION

PRODUCT NAME	sMRT V300-X2
MANUFACTURERS NAME	Marine Rescue Technologies Ltd
ADDRESS	Wescom Group, Unit J1, Anlaby Trade Park, Springfield Way, Anlaby, Hull, HU10 6RJ, United Kingdom
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DATE OF ISSUE	February 2025
ISSUE NUMBER	1
DESCRIPTION	The V300-X2 is a Zone 2 DSC Class M Man Overboard (MOB) Maritime Survivor Locating Device (MSLD). Once armed the device is designed to activate automatically in the event of a man overboard incident. Following activation, the sMRT V300-X2 transmits GMDSS VHF DSC distress alerts and continuously updates AIS position information.



BATTERY SHIPPING INFORMATION: UN3091 LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT IN COMPLIANCE WITH IATA PI: 970 SECTION II.



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 IEC 60945:2002
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.585-9 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	
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
TTF (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 IEC 63269
US APPROVALS	RTCM 11901.4
EMC	EN 301 843-8: V1.1.1.005 EN 301 843-1: V2.3.1.0.0.8 EN 60945
SAFETY	EN 63268-1: 2018 CSA/UL 62368-1:2019 AS/NZS 62368.1:2022
RADIO (121.5 MHz)	RTCM 11010:2022
RADIO (AIS)	EN 303 132 IEC 63269
ATEX	IEC 60079-0:2012 IEC 60079-11:2012