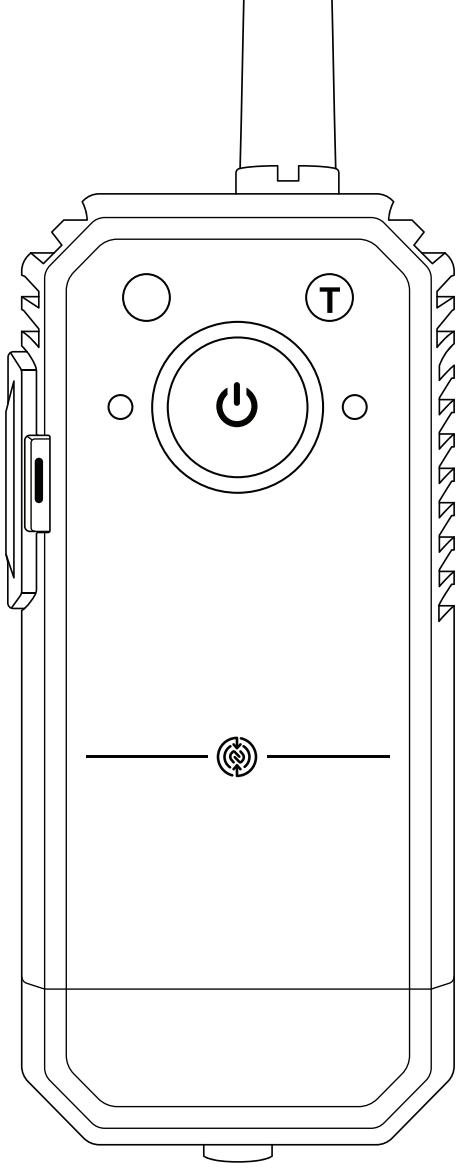
sMRT ALERT

TECHNICAL DATA SHEET



IDENTIFICATION

PRODUCT NAME	sMRT ALERT AIS DSC MOB
MANUFACTURERS NAME	Marine Rescue Technologies Ltd
ADDRESS	Wescom Group, Unit J1, Anlaby Trade Park, Springfield Way, Anlaby, Hull, HU10 6RJ, United Kingdom
TELEPHONE NUMBER	+44 (0)1482 679300
EMAIL ADDRESS	smrt@wescom-group.com
DATE OF ISSUE	September 2026
ISSUE NUMBER	5
DESCRIPTION	The sMRT ALERT is a 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 ALERT 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.

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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

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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 V1.1.1 EN 301 843-1 V2.3.1 EN 60945:2022
RED ARTICLE 3.2	EN 303 132 V2.1.1 IEC 63269:2022 IEC 61108-3:2003 EN 302 152-1 V1.1.1 EN 303 098 V2.2.1
RED ARTICLE 3.3 (G)	RTCM 11901.2:2022