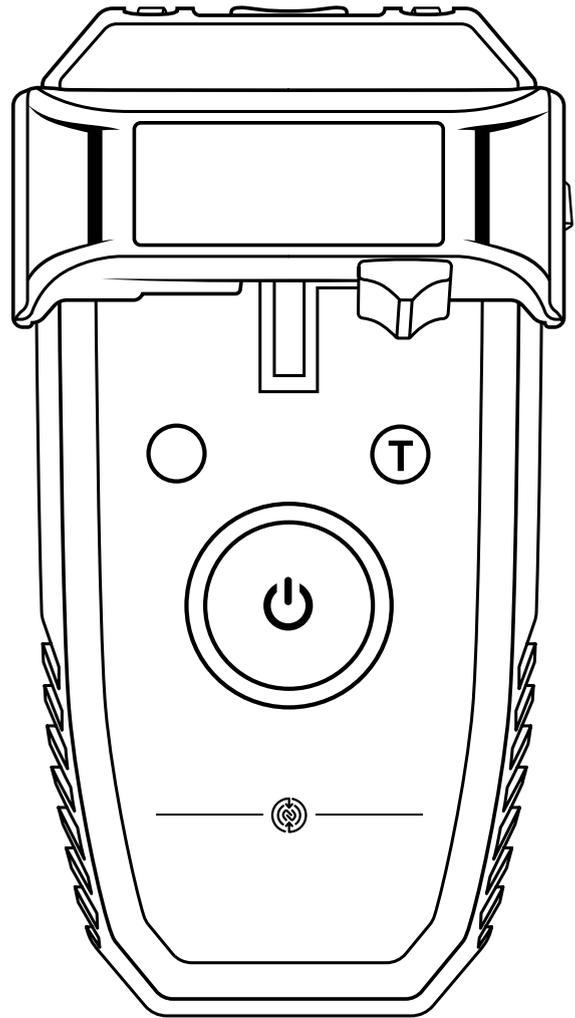


SMRT SHIELD

TECHNICAL DATA SHEET



IDENTIFICATION

PRODUCT NAME	sMRT Shield
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
FAX NUMBER	+44 (0)1482 679145
EMAIL ADDRESS	smrt@wescom-group.com
DATE OF ISSUE	September 2024
ISSUE NUMBER	1
DESCRIPTION	<p>The sMRT Shield is a Personal Locating device. Once armed the device is designed to activate automatically in the event of a man overboard incident.</p> <p>Following activation, the sMRT Shield transmits distress alerts on 406MHz and continuously updates AIS position information for pinpoint tracking.</p>



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	12V 1550mAh Lithium Manganese Dioxide (LiMnO2)
BATTERY LIFE	Minimum of 24 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	111mm (H), 60mm (W), 38mm - excluding antenna (D)
WEIGHT	185g
ENVIRONMENTAL	IEC Standard 60945
STROBE LIGHT	20 candela, 170 degree dispersion
ENVIRONMENTAL RESISTANCE	IP68
SELF ID	ITU-R M.585 compliant factory programmed freeform Maritime Identity with 972 prefix
COMPASS SAFE DISTANCE	0.5m (1.5ft)
406 MHz TRANSMITTER	
FREQUENCY	406.037 MHz
OUTPUT POWER	5+ Watts
STABILITY	2 ppb/100ms
121.5 MHz TRANSMITTER	
FREQUENCY	121.5 MHz
TOLERANCE	±2 ppm
OUTPUT POWER	>25mW PEP (typical 63mW)
CONTROLS AND OPERATION	
MANUAL ACTIVATION	2 step activation
APPROVALS	
SATELLITE APPROVALS	COSPAS-SARSAT, T.007 2024*
EUROPEAN APPROVALS	ETSI EN 302 152-1 V1.1.1, EN 303 132 V2.1.1, EN 60945:2002, EN 62368-1:2020 EN 301 843-8 (draft), EN 62209-1, EN 62209-2 EN 303 413 V1.2.1, EN 300 330 V2.1.1
US APPROVALS	RTCM STANDARD 11010.4, IEC 63269:2022, FCC CFR 47 Part 15B:2019, 47CFR 2.1093, FCC 47 CFR Part 2:2020*
CANADIAN APPROVALS	ICES-003 Issue 7:2020, RSS-102, RSS-287 Issue 2:2014 & RSS-GEN Issue 5:2018 Amd 2:2021*

* Approval is pending

