

sMRT AU10-X

TECHNICAL DATA SHEET

TAKING THE SEARCH OUT OF SEARCH AND RESCUE



SECTION 1: IDENTIFICATION

Product Name	sMRT AU10-X
Manufacturers Name	Marine Rescue Technologies Ltd
Address	Marshall House, Zarya Court, Grovehill Road, Beverley, HU17 0JG, United Kingdom.
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Email Address	sales@mrtsos.com
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Issue Number	3
Description	The sMRT AU10-X is an ATEX Zone 2 certified Man-Overboard Locating device which automatically alerts on 121.5MHz and tracks casualties via AIS to within 10 metres. With GPS position updated every minute via AIS, your and every nearby vessel becomes an instant SAR asset.

Automatic activation will alert you of every MOB incident within 2 - 5 seconds, track casualties up to 75 miles away and ensure that YOU SAVE LIVES.

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

SECTION 2: SPECIFICATION

ENVIRONMENTAL

Environmental Resistance	IP68
Operating Temperature	-20°C to+55°C
Storage Temperature	-45°C to+70°C
Operating Humidity	To 95% non-condensing
Shock	20G min
Vibration	EuroCAE ED-14F
Compass Safe Distance	30cm (for <1° deflection)
Flammability Rating	ED 14F 26.3.3 Category C:
Battery	6V Li-MnO ₂
Buoyancy	Buoyant (index=9%)
Transportation	Air cargo UN 3091 not hazardous

PHYSICAL

Dimensions (Case)	80mm x 95mm x 35mm
Weight	250g
Antenna Visible Length	Approx 535mm for life jackets Approx 650mm for harness

STANDARDS APPLIED

EMC	EN 301 489-22 V1.3.1, EN 301 489-1 V1.8.1
Electrical Safety	EN 60950-1:2006
Marine	IEC 60945:2002
Radio (121.5MHz)	EN 302 961 V1.2.1, RTCM 11901.1:2012
Radio (AIS)	EN 303 098 V1.2.1, RTCM 11901.1:2012
ATEX	IEC 60079-0:2012, IEC 60079-11:2012

RADIO

Air Band Frequencies	121.500MHz
Distress Modulation	AM compliant to ITU-R M.690-2 (2012)
Air Band Power	100mW PERP
Marine-Band Frequencies	161.975, 162.025 MHz (AIS1, AIS2)
Marine-Band Power	1W EIRP nominal
VHF Antenna	Centre-fed dipole, comprising coaxial cable and 1/8 coil whip
GPS Antenna	Circular-polarised wide-angle bulb

OPERATIONAL

Operating Time	>12 hours continuous
Standby Battery Life	>3 years
Permanently Armed	12 hours operation if armed for 12 months
GPS Position Update	Minimum of 6 per minute
GPS Time To First Lock	Typically <1 minute under normal operating conditions
Alert Indication	Audible and visible
Activation	Manual plus automatic water activation
Self ID	ITU-R M.585 compliant factory programmed freeform Maritime Identity with 972 prefix

ATEX

ATEX Classification	Ex ic T4 Gc
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