

# sMRT AU10-X Technical Data Sheet



## SECTION 1: IDENTIFICATION

<b>Product Name</b>	sMRT AU10-X
<b>Manufacturers Name</b>	Marine Rescue Technologies Ltd
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<b>Issue Number</b>	3
<b>Description</b>	<p>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.</p> <p>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.</p>

**Battery Shipping Information: UN3091 Lithium Metal Batteries contained in equipment in compliance with IATA PI: 970 Section II.**

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## 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 <sub>2</sub>
Buoyancy	Buoyant (index=9%)
Transportation	Air cargo UN 3091 not hazardous

## PHYSICAL

Case Dimensions	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 V2.1.2, RTCM 11901.1:2012
Radio (AIS)	ETS 303 098 V2.1.1, RTCM 11901.1:2012
ATEX	IEC 60079-0:2012, IEC 60079-11:2012

## RADIO

Air band frequencies	121.500MHz, 121.650MHz
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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