

## sMRT AU10 Technical Data Sheet



### SECTION 1: IDENTIFICATION

<b>Product Name</b>	sMRT AU10
<b>Manufacturers Name</b>	Marine Rescue Technologies Ltd
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<b>Date of Issue</b>	February 2016
<b>Issue Number</b>	1
<b>Description</b>	<p>The sMRT AU10 is a Man Overboard locating device.</p> <p>Once armed the device is designed to activate automatically in the event of a Man Overboard incident.</p> <p>Immediately following activation the sMRT AU10 transmits a 121.5MHz alert and homing signal. Once a GPS position is acquired AIS location information is updated continuously.</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

## 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

## 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