

# sMRT AU10

## TECHNICAL DATA SHEET

TAKING THE SEARCH OUT OF SEARCH AND RESCUE

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	sMRT AU10
<b>Manufacturers Name</b>	Marine Rescue Technologies Ltd
<b>Address</b>	Marshall House, Zarya Court, Grovehill Road, Beverley, HU17 0JG, United Kingdom.
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<b>Email Address</b>	sales@mrtsos.com
<b>Date of Issue</b>	February 2016
<b>Issue Number</b>	1
<b>Description</b>	The sMRT AU10 is a Man Overboard locating device. Once armed the device is designed to activate automatically in the event of a Man Overboard incident.

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.

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

# SECTION 2: SPECIFICATION

## ENVIRONMENTAL

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

## PHYSICAL

<b>Dimensions (Case)</b>	80mm x 95mm x 35mm
<b>Weight</b>	250g

## STANDARDS APPLIED

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

## RADIO

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

## OPERATIONAL

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