

sMRT AU10-HT

TECHNICAL DATA SHEET

TAKING THE SEARCH OUT OF SEARCH AND RESCUE



SECTION 1: IDENTIFICATION

Product Name	sMRT AU10-HT
Manufacturers Name	Marine Rescue Technologies Ltd
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Description	The sMRT AU10-HT 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-HT 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

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

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