Manufacturer and distributor of global leading Man Overboard Solutions from

Marine Rescue Technologies

sMRT V100 Technical Data Sheet

SECTION 1: IDENTIFICATION

Product Name	sMRT V100	Ter
Manufacturers Name	Marine Rescue Technologies Ltd	
Address	Marshall House, Zarya Court, Grovehill Road, Beverley, HU17 0JG, United Kingdom.	
Telephone Number	+44 (0)1482 679300	
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E-mail	sales@mrtsos.com	
Date of Issue	February 2016	
Issue Number	1	
Description	The sMRT V100 is a Man Overboard Locating d	evice.
	Once armed the device is designed to activate automatically in the event of a man overboard incident.	
	Following activation the sMRT V100 transmits (VHF DSC distress alerts and continuously update position information.	

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

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GENERAL

Battery Type Battery Life Battery Shelf Life at +20°C Operating Temperature Storage Temperature Dimensions Weight Durability Strobe Light **Environmental Resistance** Mounting Options Self ID Compass Safe Distance Alerting Radius

AIS/VHF TRANSMITTER PACKAGES

Antenna type AIS Tx Power Output **VHF** Transmission Frequencies

VHF DSC Tx Power Output Signalling Type

CONTROLS AND OPERATION

Automatic Activation Automatic Water Activation Manual Activation

GPS RECEIVER

GPS Receiver Type TTFF (Time to First Fix) Subsequent GPS fixes **VHF DSC AND AIS ALERTS**

AIS

Initial Open Loop DSC Alert Subsequent Open Loop DSC Alerts

First DSC GPS data alert sent **APPROVALS**

European Approvals

US Approvals

9.0V 1500mAh Lithium Manganese Dioxide (LiMnO2) Minimum of 12 hours at -20°C. 5 years -20° to +55°C (-4° to +131°F) as per IEC 60945 -30° to +70°C (-22° to +158°F) as per IEC 60945 51mm W x 137mm H x 26mm D 168g IEC Standard 60945 20 candela, 170 degree dispersion, flash rate once-per-sec IP67 Designed to integrate with a SOLAS approved life jacket ITU-R M.585 Compliant factory programmed freeform Maritime Identity with 972 prefix 0.5m (1.5ft) Up to 75 mile range (from fixed wing aircraft)*

Vertically polarised Nominal 1W EIRP VHF DSC Channel 70: 156.525MHz AIS Channel 1: 161.975MHz AIS Channel 2: 162.025MHz Nominal radiated power 500mW AIS and VHF-DSC

On PFD inflation After 2 seconds of water sensor immersion Immediately following removal of activation tab

56 channel 45 seconds (typical) with nominal GPS signal levels -130dBm Minimum of 6 per minute

Within 30 seconds of GPS position acquisition 10 seconds after activation Every 5 minutes for the first 30 minutes, every 10 minutes thereafter until VHF-DSC acknowledgement or the battery expires. Immediately after GPS position acquired

CE approved EN 303 098 V1.2.1 & draft EN 303 132 FCC 2ABF7SMRTV100 RTCM STANDARD 11901.1

* Expected range derived from sea trials. Actual alerting range dependent on sea state, atmospheric conditions and height/altitude of receiving antenna.