



# SMRT V100

## VHF DSC & AIS PLB

The sMRT V100 works fast to save lives. As soon as your crewmember hits the water, the auto activating sMRT V100 sends an alert to every VHF DSC radio nearby. Their GPS position is updated every minute via AIS so you know exactly where they are.

SPEAK TO OUR SALES TEAM TO FIND OUT MORE.



WE TAKE THE SEARCH OUT OF SEARCH AND RESCUE



## Why Choose a sMRT V100?

- ✓ MONITOR YOUR CREW 24/7
- ✓ ACTIVATES AUTOMATICALLY ON INFLATION/IMMERSION  
IN WATER OR MANUALLY
- ✓ INDICATES GPS POSITION IN LESS THAN 45S\*
- ✓ UPDATES GPS POSITION VIA AIS EVERY MINUTE
- ✓ TRACKS MULTIPLE TARGETS SIMULTANEOUSLY
- ✓ DESIGNED TO BE INTEGRATED INTO A SOLAS APPROVED sMRT PFD
- ✓ ENABLES EVERY VESSEL NEARBY TO BECOME A SAR ASSET
- ✓ WORKS WITH EXISTING VHF DSC AND AIS EQUIPMENT
- ✓ UP TO 150 MILE RANGE (FROM FIXED WING AIRCRAFT)\*
- ✓ ANNUAL RECERTIFICATION ENSURES OPTIMUM PERFORMANCE

\*ENVIRONMENTAL CONDITIONS DEPENDENT

### GENERAL

<b>STANDARDS</b>	DESIGNED TO RTCM STANDARD 11901.1 EN 303 098 V1.2.1 & DRAFT EN 303 132
<b>BATTERY TYPE</b>	9.0V 1500MAH LITHIUM MANGANESE DIOXIDE (LIMNO2)
<b>BATTERY LIFE</b>	MINIMUM OF 12 HOURS AT -20°C.
<b>BATTERY SHELF LIFE AT +20°C</b>	5 YEARS
<b>OPERATING TEMPERATURE</b>	20° TO +55°C (-4° TO +131°F) AS PER IEC 60945
<b>STORAGE TEMPERATURE</b>	-30° TO +70°C (-22° TO +158°F) AS PER IEC 60945
<b>DIMENSIONS</b>	51MM W X 137MM H X 26MM D
<b>WEIGHT</b>	212G
<b>DURABILITY</b>	IEC STANDARD 60945
<b>STROBE LIGHT</b>	20 CANDELA, 170 DEGREE DISPERSION, FLASH RATE ONCE-PER-SEC
<b>ENVIRONMENTAL RESISTANCE</b>	IP67
<b>MOUNTING OPTIONS</b>	DESIGNED TO INTEGRATE WITH A SOLAS APPROVED LIFE JACKET
<b>SELF ID</b>	ITU-R M.585 COMPLIANT FACTORY PROGRAMMED FREEFORM MARITIME IDENTITY WITH 972 PREFIX
<b>COMPASS SAFE DISTANCE</b>	0.5M (1.5FT)
<b>ALERTING RADIUS</b>	UP TO 150 MILE RANGE (FROM FIXED WING AIRCRAFT)*

### AIS/VHF TRANSMITTER PACKAGES

<b>ANTENNA TYPE</b>	VERTICALLY POLARISED
<b>AIS TX POWER OUTPUT</b>	NOMINAL 1W EIRP
<b>VHF TRANSMISSION FREQUENCIES</b>	VHF DSC CHANNEL 70: 156.525MHz AIS CHANNEL 1: 161.975MHz AIS CHANNEL 2: 162.025MHz
<b>VHF DSC TX POWER OUTPUT</b>	NOMINAL RADIATED POWER 500MW
<b>SIGNALLING TYPE</b>	AIS AND VHF-DSC
<b>GPS RECEIVER</b>	
<b>GPS RECEIVER TYPE</b>	56 CHANNEL
<b>TTFF (TIME TO FIRST FIX)</b>	45 SECONDS (TYPICAL) WITH NOMINAL GPS SIGNAL LEVELS -130DBM
<b>SUBSEQUENT GPS FIXES</b>	EVERY FIVE MINUTES FOR 30 MINS; THEN EVERY 10 MINUTES UNTIL SWITCHED OFF OR BATTERY EXPIRES
<b>VHF DSC AND AIS ALERTS</b>	
<b>AIS</b>	WITHIN 30 SECONDS OF GPS POSITION ACQUISITION
<b>INITIAL OPEN LOOP DSC ALERT</b>	10 SECONDS AFTER ACTIVATION
<b>SUBSEQUENT OPEN LOOP DSC ALERTS</b>	EVERY 5 MINUTES FOR THE FIRST 30 MINUTES, EVERY 10 MINUTES THERE AFTER UNTIL VHF-DSC ACKNOWLEDGEMENT OR THE BATTERY EXPIRES.
<b>FIRST DSC GPS DATA ALERT SENT</b>	IMMEDIATELY AFTER GPS POSITION ACQUIRED



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