

# YOU CAN MAKE THE DIFFERENCE BETWEEN SAVING OR LOSING A LIFE

**NEW!**



FSE SAFE PTE LTD

**SMRT V100x**  
VHF DSC & AIS

## THE WORLD'S FIRST FULLY CERTIFIED ZONE 1 MSLD

As soon as your crewmember hits the water, the auto activating sMRT V100x sends an alert to your platform's VHF DSC radio.

Should your platform not acknowledge, the alert will retransmit to every VHF DSC radio nearby. Their GPS position is updated every minute via AIS so you know exactly where they are.

## DESIGNED TO MEET NEW INTERNATIONAL SAFETY STANDARDS

We take the **SEARCH** out of search and rescue



II 2G Ex ib IIB T4 Gb

## WHY CHOOSE A sMRT V100x?

- + 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
- + Individual MMSI identification
- + 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
- + 150 mile transmission range with worldwide satellite coverage\*
- + Annual recertification ensures optimum performance
- + Zone 1 IECEx rated

## SPECIFICATION

### GENERAL

Standards	IEC 60079-0, IEC 60079-11. Designed to RTCM STANDARD 11901.1 and draft ETSI EN 303 098-1 Standard
Battery Type	9.0V 1500mAh Lithium Manganese Dioxide (LiMnO2)
Battery Life	Minimum of 12 hours at -10°C (14°F) and longer in warmer conditions.
Battery Shelf Life at +20°C	10 years from date printed on battery (replace after 5 years)
Operating Temperature	-20° to +55°C (-4° to +131°F) as per IEC 60945
Storage Temperature	-30° to +70°C (-22° to +158°F) as per IEC 60945
Dimensions	51mm (2in) W x 137mm (5.4in) H x 21mm (0.83in) D (26mm/1in with water sensor)
Weight	168g (5.9oz)
Durability	Tested as per IEC Standard 60945
Strobe Light	20 candela, 170 degree dispersion, flash rate once-per-sec
Environmental Resistance	IP67
Mounting Options	Designed for attachment to a SOLAS approved life jacket
MMSI	Preprogrammed (972xxyyyy); xx = manufacturer, yyyy = sequence 0000 to 9999
Compass Safe Distance	0.5m (1.5ft)
Alerting Radius	Up to 15NM surface to surface, up to 150 NM surface to air (satellite/fixed wing)*

### AIS/VHF TRANSMITTER PACKAGES

Antenna type	Vertically polarized
AIS Transmission Frequencies	AIS Channel 1: 161.975MHz; AIS Channel 2: 162.025MHz
AIS Tx Power Output	Nominal 1W EIRP
VHF Transmission Frequencies	VHF DSC Channel 70: 156.525 MHz; Nature of distress indication: "Man overboard"
VHF DSC Tx Power Output	Nominal radiated power 500mW
Signalling Type	AIS and VHF-DSC MOB standards applied as per RTCM Standard 11901.1

### GPS RECEIVER

GPS Receiver Type	48 channel
TTF (Time to First Fix)	35 seconds (typical) with nominal GPS signal levels -130dBm
Subsequent GPS fixes	Every five minutes for 30 mins; then every 10 mins until switched off or battery expires

### VHF DSC AND AIS ALERTS

AIS	Immediately after activation and every minute thereafter on AIS channels 1 and 2
Initial Closed Loop DSC Alert	After the initial AIS transmission when the device is activated
Subsequent Closed Loop DSC Alerts	Closed loop alert for five minutes, or until DSC acknowledgement. Then open loop DSC alerts every 5 minutes for 30 mins, and every 10 mins thereafter until either DSC acknowledgement, or the battery expires
First DSC GPS data alert sent	Usually within 30 secs after position acquired



FOR MORE DETAILS:  
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\*Environmental Conditions Dependent