

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



**sMRT**

**V100 SOLUTION**

## **275N SOLAS PFD with integrated VHF DSC & AIS PLB**

### **Why choose the sMRT V100 Solution?**

Our life jacket and PLB solution is easy to use, auto activates and monitors the safety of your crew 24/7. The SOLAS approved life jacket inflates and activates the sMRT V100 as it hits the water.

Integrated at manufacturer level the auto activating sMRT V100 sends a distress alert to every VHF DSC radio nearby.

Their GPS position is updated every minute via AIS so you know exactly where they are.



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

# WHY CHOOSE A sMRT V100 SOLUTION?

- 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 ITU-R 585 compliant self ID
- 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

## SPECIFICATIONS

### GENERAL

Battery Type	9.0V 1500mAh Lithium Manganese Dioxide (LiMnO2)
Battery Life	Minimum of 12 hours at -20°C.
Battery Shelf Life at +20°C	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 W x 137mm H x 26mm D
Weight	212g
Durability	IEC Standard 60945
Strobe Light	20 candela, 170 degree dispersion, flash rate once-per-sec
Environmental Resistance	IP67
Mounting Options	Designed to integrate with a SOLAS approved life jacket
Self ID	ITU-R M.585 Compliant factory programmed freeform Maritime Identity with 972 prefix
Compass Safe Distance	0.5m (1.5ft)
Alerting Radius	Up to 75 mile range (from fixed wing aircraft)*

### AIS/VHF TRANSMITTER PACKAGES

Antenna type	Vertically polarised
AIS Tx Power Output	Nominal 1W EIRP
VHF Transmission Frequencies	VHF DSC Channel 70: 156.525MHz; AIS Channel 1: 161.975MHz; AIS Channel 2: 162.025MHz
VHF DSC Tx Power Output	Nominal radiated power 500mW
Signalling Type	AIS and VHF-DSC

### CONTROLS AND OPERATION

Automatic Activation	On PFD inflation
Automatic Water Activation	After 2 seconds of water sensor immersion
Manual Activation	Immediately following removal of activation tab

### GPS RECEIVER

GPS Receiver Type	56 channel
TTFF (Time to First Fix)	45 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	Within 30 seconds of GPS position acquisition
Initial Open Loop DSC Alert	10 seconds after activation
Subsequent Open Loop DSC Alerts	Every 5 minutes for the first 30 minutes, every 10 minutes thereafter until VHF-DSC acknowledgement or the battery expires.
First DSC GPS data alert sent	Immediately after GPS position acquired

### APPROVALS

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

\* Environmental conditions dependent

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

Manufacturer and distributor of global leading Man Overboard Solutions from



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