

DO YOUR CREW TRUST YOU WITH THEIR LIVES?



sMRT AU10-X 121.5MHz & AIS

Always on watch, so you don't have to be.

The sMRT AU10-X is an ATEX Zone 2 certified Man-Overboard Locating device which automatically alerts on 121.5MHz and tracks casualties via AIS to within 10 metres.

With GPS position updated every minute via AIS, your and every nearby vessel becomes an instant SAR asset.

Automatic activation will alert you of every MOB incident within 2 - 5 seconds, track casualties up to 75 miles away and ensure that YOU SAVE LIVES.



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

WHY CHOOSE A sMRT AU10-X?

- Activates automatically on immersion in water or manually
- Alerts via traditional 121.5MHz
- Indicates GPS position in less than 45s*
- Updates GPS position via AIS every minute
- Multiple targets can be tracked simultaneously
- Designed to be integrated with SOLAS approved sMRT PFD
- Individual MMSI identification
- Up to 75 mile range with worldwide satellite coverage*
- Built in flashing light enhances visual detection
- Utilises existing Sea Marshall 121.5MHz receivers/SARfinders
- Annual recertification ensures optimum performance
- ATEX Zone 2 certified, conforms to ATEX Directive 2014/34/EU

SPECIFICATION

ENVIRONMENTAL

Environmental resistance	IP68
Operating temp	-20°C to +55°C
Storage temp	-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-MnO2
Buoyancy	Buoyant (index=9%)
Transportation	Air cargo UN 3091- not hazardous

PHYSICAL

Dimensions (Case)	80 x 95 x 35mm
Weight	250g
Antenna Visible Length	Approx 535mm for life jackets Approx 650mm for harness

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 V2.1.2, RTCM 11901.1:2012
Radio (AIS)	ETS 303 098 V2.1.1, RTCM 11901.1:2012
ATEX	IEC 60079-0:2012, IEC 60079-11:2012

ELECTRICAL

Air band frequencies	121.500MHz, 121.650MHz
Distress modulation	AM compliant to ITU-R M.690-2 (2012)
Air band power	100mW ERP
Marine-band frequencies	161.975, 162.025 MHz (AIS1, AIS2)
Signaling type	AIS-MOB standards applied ETSI 303 098-1, RTCM STANDARD 11901.1
Marine-band power	1W EIRP nominal
VHF antenna	Centre-fed dipole, comprising coaxial cable and 1/8 coil whip
GPS antenna	Circular-polarized 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

ATEX

ATEX Classification	Ex ic T4 Gc
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Manufacturer and distributor of global leading Man Overboard Solutions from



FOR MORE DETAILS: Email: info@mrt.sos.com • Tel: +44 (0)1482 679 300 • Visit: www.mrt.sos.com

*Environmental Conditions Dependent