

AU11

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AIS, VHF DSC & 121.5 MHz MSLD

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SNAT AU11

The sMRT AU11 is a dual operating AIS Personal Locator Beacon (PLB) alerting on the 121.5MHz international Search and Rescue (SAR) frequency, while simultaneously transmitting GPS coordinates on AIS.

Automatic activation will alert you of every MOB incident within 2 – 5 seconds. With GPS position updated every minute via AIS, yours and every nearby vessel becomes an instant SAR asset able to track multiple casualties up to 75 miles away.

121.5 √- MHz **121.5 MHz** A low power homing signal to assist local rescue efforts

VHF_Ø DSC **VHF DSC** All nearby vessels are automatically alerted of the man overboard situation via DSC

ΔΙS

AIS

The live location of the man overboard is regularly updated and displayed via AIS



Combines both GPS & Galileo GNSS receivers for accelerated detection



Class-M

Compliant to European regulation ECC/DEC/ (22)02 relevant to the usage of MOB devices

PRODUCT FEATURES



STROBE LIGHT Antenna can be unscrewed and detached for easy storage



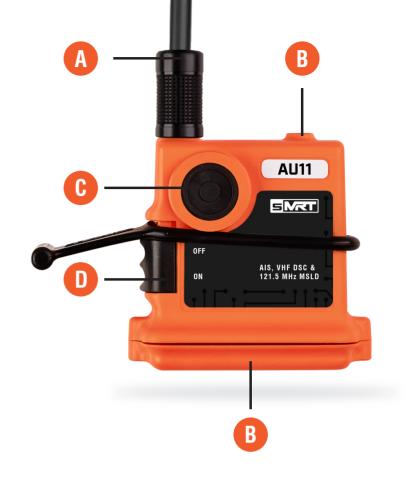
WATER SENSOR AU transmissions will automatically activate in water



MANUAL ACTIVATION Easy push button allows the PLB to be manually activated



ARMING SWITCH Arming switch, locks in and clearly displays if the PLB is ON or OFF





Audible Alarm Highlights activation to aid location and raise awareness of false activation



Clipping System Secure clipping system allows easy attachment options for life jackets





Test Functionality Manual and app based device safety, providing a health check on power and functionality

Dual GNSS Receivers GPS and Galileo GNSS receivers for accelerated location detection



Dual Activation Methods

Device can be activated manually or after immersion in water meaning it will still work if user is incapacitated



Water Proof

Designed to withstand submersion up to 10 meters, ensuring its protection against water damage

WHAT IS A Class-M MAN OVERBOARD DEVICE?

A Class-M MOB (Man Overboard) device is an AIS-enabled device designed to comply with ECC/DEC/(22)02 regulations. From December 31, 2024, only Class-M compliant MOBs and Mobile Aids to Navigation (AtoN) will be allowed to operate on AIS channels 1 and 2 in countries adopting the regulation, ensuring these channels are reserved for emergency use. Non-compliant devices will be restricted to channel 2006, which is not monitored for emergencies.



GENERAL	
BATTERY TYPE	6V Li-MnO2
BATTERY LIFE	Minimum of 12 hours at -20°C
BATTERY SHELF LIFE AT +20°C	>3 years
OPERATING TEMPERATURE	-20° to +55°C
STORAGE TEMPERATURE	-45° to +70°C
OPERATING HUMIDITY	To 95% non-condensing
ѕноск	20G min
VIBRATIONS	EuroCAE ED-14F
FLAMMABILITY RATING	ED 14F 26.3.3 Category C:
BUOYANCY	Buoyant (index=9%)
TRANSPORTATION	Air cargo UN 3091 not hazardous
DIMENSIONS (CASE)	80mm (H) x 95mm (W) x 35mm (D)
WEIGHT	250g
ENVIRONMENTAL	EN 303 132
STROBE LIGHT	ТВС
ENVIRONMENTAL RESISTANCE	IP68
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	30cm (for <1° deflection)
ALERTING RADIUS	Up to 5NM (depending on height of antenna)*
AIS/VHF TRANSMITTER PACKAGES	
AIR BAND FREQUENCIES	121.500 MHz
AIS TX POWER OUTPUT	Nominal 1W EIRP
VHF TRANSMISSION FREQUENCIES	VHF DSC Channel 70: 156.525 MHz, AIS Channel 1: 161.975 MHz , AIS Channel 2: 162.025 MHz
VHF DSC Tx POWER OUTPUT	Nominal radiated power 500mW
SIGNALLING TYPE	AIS and VHF-DSC
DISTRESS MODULATION	AM compliant to ITU-R M.690-2 (2012)
AIR BAND POWER	
	100mW PERP
MARINE-BAND POWER	100mW PERP Nominal 1W EIRP
MARINE-BAND POWER VHF ANTENNA	
MARINE-BAND POWER	Nominal 1W EIRP
MARINE-BAND POWER VHF ANTENNA	Nominal 1W EIRP
MARINE-BAND POWER VHF ANTENNA GPS RECEIVER	Nominal 1W EIRP Centre-fed dipole, comprising coaxial cable and 1/8 coil whip
MARINE-BAND POWER VHF ANTENNA GPS RECEIVER GNSS RECEIVER TYPE	Nominal 1W EIRP Centre-fed dipole, comprising coaxial cable and 1/8 coil whip GPS plus Galileo
MARINE-BAND POWER VHF ANTENNA GPS RECEIVER GNSS RECEIVER TYPE TTFF (TIME TO FIRST FIX)	Nominal 1W EIRP Centre-fed dipole, comprising coaxial cable and 1/8 coil whip GPS plus Galileo 15 seconds (typical) with nominal GPS signal levels -130dBm
MARINE-BAND POWER VHF ANTENNA GPS RECEIVER GNSS RECEIVER TYPE TTFF (TIME TO FIRST FIX) GNSS UPDATE RATE	Nominal 1W EIRP Centre-fed dipole, comprising coaxial cable and 1/8 coil whip GPS plus Galileo 15 seconds (typical) with nominal GPS signal levels -130dBm
MARINE-BAND POWER VHF ANTENNA GPS RECEIVER GNSS RECEIVER TYPE TTFF (TIME TO FIRST FIX) GNSS UPDATE RATE VHF DSC AND AIS ALERTS	Nominal 1W EIRP Centre-fed dipole, comprising coaxial cable and 1/8 coil whip GPS plus Galileo 15 seconds (typical) with nominal GPS signal levels -130dBm Every minute
MARINE-BAND POWER VHF ANTENNA GPS RECEIVER GNSS RECEIVER TYPE TTFF (TIME TO FIRST FIX) GNSS UPDATE RATE VHF DSC AND AIS ALERTS AIS	Nominal 1W EIRP Centre-fed dipole, comprising coaxial cable and 1/8 coil whip GPS plus Galileo 15 seconds (typical) with nominal GPS signal levels -130dBm Every minute Within 30 seconds of GNSS position acquisition

CONTROLS AND OPERATION	
AUTOMATIC WATER ACTIVATION	After 2 seconds of water sensor immersion
MANUAL ACTIVATION	Once armed, press activate button
OPERATING TIME	>12 hours continuous
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
APPROVALS	
EUROPEAN APPROVALS	EN 303 132 V2.1.1
EMC	EN 301 489-3 EN 301 489-19
SAFETY	EN 63268-1: 2018
RADIO (121.5 MHZ)	EN 302 961 V1.2.1
RADIO (AIS)	EN 303 098 V1.2.1

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

