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SAFELINK R10

AIS Survivor Recovery System

The revolutionary new SafeLink R10 SRS (Survivor Recovery System) is the first of its kind, a personal AIS (Automatic Identification System) device to assist in survivor recovery. It is lightweight and compact, designed for and intended to be carried by all crew members.

SafeLink R10 SRS

The SafeLink R10 SRS (Survivor Recovery System) is the first of its kind, a personal AIS Automatic Identification System) device designed to be fitted to a lifejacket and assist in survivor recovery The SafeLink R10 SRS is specifically designed as a personal AIS search and rescue locating device, it enables those on board a vessel with an AIS chart plotter† to quickly and efficiently locate and retrieve a missing crew member.

The SafeLink R10 transmits target survivor information, including structured alert messages, GPS position information and a unique serialised identity number back to the onboard plotter†. An inbuilt high precision GPS receiver provides accurate position information to assist in quick recovery of survivors.

The SafeLink R10 will transmit continuously for a minimum of 24 hours and has a 7 year battery storage life. It also features a flashing LED indicator light to aid detection at night and a self test facility with battery use indication.

Carrying a SafeLink R10 is a must for every safety-conscious sailor. Using this simple to operate, yet state of the art new device ensures the ultimate chance of survivor recovery.

- Provides accurate position information to assist fast recovery of individuals in difficulties at sea
- Transmits GPS target tracking information over AIS
- Compatible with plotters and onboard navigation systems[1] to assist fast location and retrieval
- Small and lightweight for mounting on lifejacket
- Unique serialized ID
- LED flashing indicator
- Minimum 24 hour continuous operation
- 7 year battery life

[1] *For use with AIS enabled plotters, contact your plotter manufacturer for further info.*

How SafeLink R10 SRS works

- R10 SRS is activated manually in an emergency situation
- A unique emergency alert is transmitted to all AIS receivers and AIS enabled chart plotters[2] within a 4 mile radius (typical)
- An AIS SART emergency alert icon (pictured below) signals the requirement for urgent help

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- Precise target survivor information including GPS position becomes viewable when the chart plotter[1] cursor is positioned over the emergency alert icon
- Provides exact location, distance and bearing to locate person(s) in need of assistance.

As AIS SARTs are still very new, not all small-craft chart plotters with AIS show the correct SART icon ⊗ as recommended by the IMO. At the very least, they will show the same icon as used for other craft – normally an arrow. In addition, user settings generally allow you to configure the display to show the MMSI number, which in the R10 always begins with 972. This way you can differentiate the R10 from other vessels. If in doubt, check with your plotter manufacturer how they display SARTs on screen.

All new ECDIS plotters (on ships over 300 tonnes) will display the SART icon ⊗ correctly.

[2] *For use with AIS enabled plotters, contact your plotter manufacturer for further info.*

Installation and Activation

The SafeLink R10 SRS is designed to be used mounted on a gas-inflation type lifejacket using the clips provided, prior to going to sea. When it is installed in the lifejacket the orange safety tab is released, which 'arms' the R10 ready for use. To use, first inflate the lifejacket. When it is inflated, pull the orange tab downwards to pull the red cap off the R10. This will deploy the antenna and automatically switch ON the R10 SRS.

If professionally fitted to certain models of lifejacket (see website for authorised models), the R10 SRS can become semi-automatic in operation; the action of the lifejacket inflating triggers the activation of the R10 SRS.

Easy activation – just slide off the orange arming tab, then pull off the red activation cap

Safelink R10 SRS SPECIFICATIONS

ENVIRONMENTAL	
Exterior finish	Hi impact ABS/PC Yellow
Sealing depth	Immersion to 5m (16.4ft)
Operating temperature	-20°C to +55°C (-4°F to +131°F)
Storage temperature	-30°C to +70°C (-22°F to +158°F)

BATTERY	
Type	6V Lithium Metal
Replacement	By service centre
Use	Logged by microcontroller

OPERATION	
Activation	Manual two stage
Self test (short)	Battery use indication
GPS Self test (long)	SART TEST transmission with GPS position

TRANSPORTATION	
Air cargo	IATA UN 3091, not restricted
Classification	PI970 Section II

ELECTRICAL	
AIS Transmitter	
Frequency	AIS channel 1- 161.975 MHz, AIS channel 2 - 162.025 MHz
Power	2W nominal
Transmit antenna	Sprung whip
AIS messages	Message 1 (UID, GPS transmitted position, SOG, COG, UTC) Message 14 (SART-ACTIVE or SART TEST)
Unique ID number	Factory programmed
GPS receiver	
GPS type	50 channel
Antenna type	Ceramic patch
GPS position update	Every minute

PHYSICAL	
Size (D x W x L)	27 x 47 x 124mm (1.1" x 1.6" x 4.7")
Weight	120g (4.23 oz)
Deployment	
Hands free	Webbing clip
Hand held	Security lanyard

FUNCTIONAL	
First transmission	After 10 seconds (no GPS)
Range	4 nautical miles (typical)
Secondary location	Flashing white LED device and status indicator

STANDARDS	(App. Parts of)
APPLIED	IEC 61097-14, 60945 (environmen-tal EMC), 61108 parts 1, ITU-R M.1371

PART NUMBER	
Safelink R10 SRS retail pack	K98-001-001A

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11 June, 2019. AIS Survivor Recovery System
Specifications subject to change or improvement without notice.
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