

Smartfind S20

Personal AIS Beacon

The revolutionary new Smartfind S20, the result of the improvement and miniaturisation of AIS (Automatic Identification System) SART technology, is a personal AIS device, designed to assist in survivor recovery. It is lightweight and compact and intended to be carried by all crew members.

- Provides accurate position information to assist fast recovery of individuals in difficulty at sea
- Transmits GPS target tracking information over AIS
- Compatible with plotters and onboard navigation systems to assist fast location and retrieval
- Compact and 120g, designed for lifejacket use
- Special TX ID transmitted every minute
- Flashing LED and buzzer
- Minimum 24 hour continuous operation
- 7 year battery life
- First transmission typically after 15 seconds
- Waterproof

Smartfind S20 SPECIFICATIONS

ENVIRONMENTAL		AIS messages transmitted	Message 1 (UID, GPS position, SOG, COG, UTC) Message 14 (MOB ACTIVE or MOB TEST) Factory programmed
Exterior finish	Hi impact ABS/PC Orange	ID number	
Sealing depth	Immersion to 5m (16.4ft)	GPS receiver	
Operating temperature	-20°C to +55°C (-4°F to +131°F)	GPS type	50 channel
Storage temperature	-30°C to +70°C (-22°F to +158°F)	Antenna type	Ceramic patch
BATTERY		GPS position update	Every minute
Type	6V Lithium Metal	PHYSICAL	
Replacement	By service centre	Size (D x W x L)	27 x 47 x 124mm (1.1" x 1.6" x 4.7")
Use	Logged by microcontroller	Weight	120g (4.23 oz)
OPERATION		Deployment	
Activation	Manual two stage	Hands free	Webbing clip
Self test (short)	Battery use indication	Hand held	Security lanyard
GPS Self test (long)	MOB TEST transmission with GPS position	FUNCTIONAL	
TRANSPORTATION		First transmission	After 10 seconds (no GPS)
Air cargo	IATA UN 3091, not restricted	Range	4 nautical miles (typical)
Classification	PI970 Section II	Secondary location device and status indicator	Flashing white LED
ELECTRICAL		STANDARDS APPLIED	(App. Parts of) IEC 61097-14, 60945 (environmental EMC), 61108 parts 1, ITU-R M.1371
AIS Transmitter		PART NUMBER	
Frequency	AIS channel 1 - 161.975 MHz, AIS channel 2 - 162.025 MHz	Smartfind S20 SRS retail pack	98-001-002A
Power	2W nominal		
Transmit antenna	Sprung whip		

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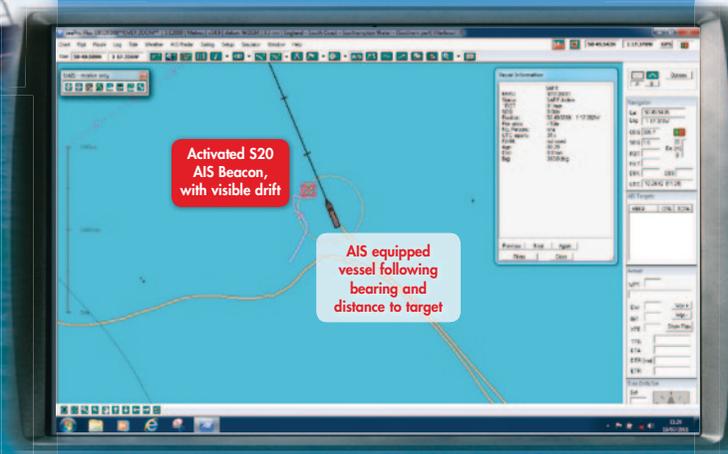
† For use with AIS enabled plotters, contact your plotter manufacturer for further info.

The Smartfind S20 SRS (Survival Recovery System) has been specifically designed as a personal AIS search and rescue locating device to quickly and efficiently locate and retrieve a missing crew member. It is compatible with existing AIS enabled chart plotters and onboard navigation systems providing a reliable and cost effective solution for crew safety.



How Smartfind S20 works

- S20 is activated in an emergency crew recovery situation
- An alert message is transmitted to all AIS receivers and AIS enabled chart plotters within a 4 mile radius (typical)
- An AIS SART alert icon (pictured below) marks the survivors location
- Precise target survivor information including GPS position become viewable when the chart plotter† cursor is positioned over the icon
- Provides exact location, distance and bearing to locate person (s) in need of assistance



*Image shown is Euronav Software

As personal AIS transmitters are still very new, not all small-craft chart plotters with AIS show the correct 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 ID number, which in the S20 always begins with 972. This way you can differentiate the S20 from other vessels. All new ECDIS plotters (on ships over 300 tonnes) will display the icon correctly.

† For use with AIS enabled plotters, contact your plotter manufacturer for further info.

Installation and Activation

The Smartfind S20 can be carried in its belt pouch or mounted on a 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 S20 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 S20. This will deploy the antenna and automatically switch ON the S20.



The Smartfind S20 transmits target survivor information, including GPS position information and a 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 Smartfind S20 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 Smartfind S20 is a must for every safety-conscious sailor.



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



Can be used in conjunction with Smartfind M5 AIS Class A*



*and any AIS SART Alarm