

SmartFind S20 AIS MOB Device

The revolutionary new SmartFind S20 is a personal AIS MOB device, designed to assist in survivor recovery. It is lightweight and compact and intended to be carried by all crew members.



SmartFind S20

The SmartFind S20 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 many existing AIS enabled chart plotters and onboard navigation systems providing a reliable and cost effective solution for crew safety.

SmartFind S20 transmits target survivor information, including GPS position information and a serialised identity number. An inbuilt high precision GPS receiver provides accurate position information to assist in quick recovery of survivors.

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.



Can be used in conjunction with the McMurdo SmartFind M5 AIS Class A**

**and any AIS SART Alarm

- Provides accurate position information to assist fast recovery of individuals in difficulty at sea
- Transmits GPS target tracking information over AIS
- Compatible with AIS enabled plotters and onboard navigation systems[†] to assist fast location and retrieval
- Compact and lightweight, can be mounted on a lifejacket
- TX ID and position report transmitted every minute
- Flashing LED and buzzer
- Minimum 24 hour continuous operation
- 7 year battery life
- First MOB transmission typically after 15 seconds*
- Waterproof

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

* With GPS position when it's available.



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 right) 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

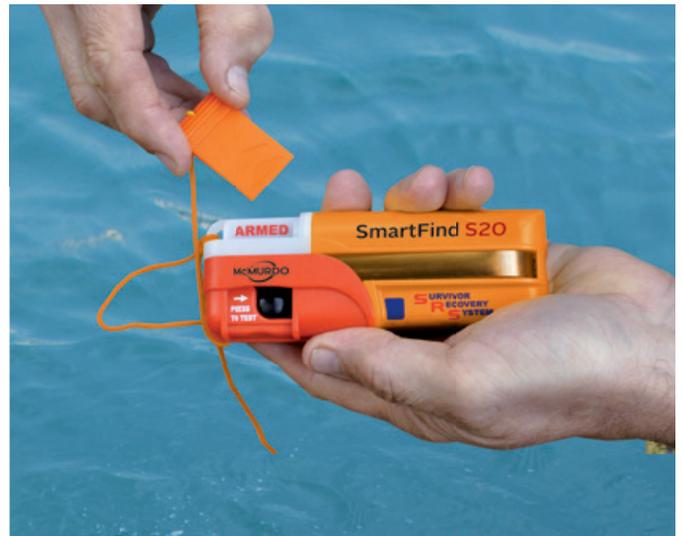
As personal AIS MOB devices are still very new, not all small-craft chart plotters with AIS show the correct icon as recommended by the IMO. At the very least, they will show the same icon as used for other craft — normally an arrow. In addition, user settings generally allow you to configure the display to show the TX 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) should display the icon correctly.

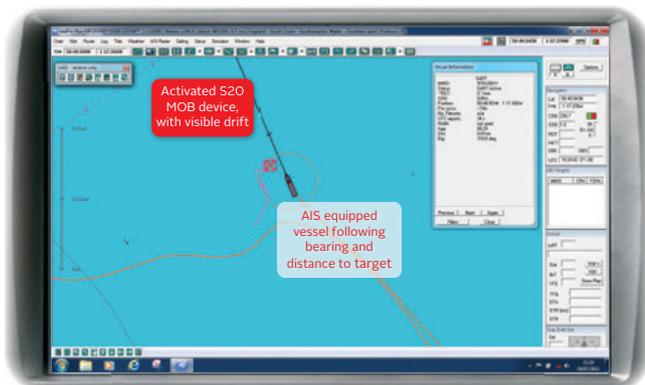
[†] For use with AIS enabled plotters, contact your plotter manufacturer for further info.

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



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



*Image shown is Euronav Software



SmartFind S20 AIS MOB Device Specifications

ENVIRONMENTAL

Exterior finish Hi impact ABS/PC Orange
 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) MOB TEST transmission with
 GPS position

TRANSPORTATION

Air cargo IATA UN 3091, not restricted

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 transmitted Message 1 (TX ID, GPS
 position, SOG, COG, UTC)
 Message 14 (MOB ACTIVE
 or MOB TEST)

TX 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")
 120g (4.23 oz)
 Weight
 Deployment
 Hands free Webbing clip
 Hand held Security lanyard

FUNCTIONAL

First transmission After 18 seconds (no GPS)
 Range 4 nautical miles (typical)
 Secondary location device and status indicator Flashing white LED

STANDARDS APPLIED

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

PART NUMBER

SmartFind S20 AIS MOB 98-001-002A
 Device retail pack

