

Smart Find S10 AIS MOB Device

The SmartFind S10 AIS MOB Device is an innovative manually activated personal safety device which incorporates both AIS (Automatic Identification System) and GPS technology. It is designed to aid the speedy recovery of personnel/crew members who find themselves in difficulty at sea.



SmartFind S10

The SmartFind S10 is waterproof, buoyant and compact, intended for carriage by divers, crew and anyone who works on or carries out activities on the water.

The SmartFind S10 transmits target survivor information, including structured alert messages, GPS position information and a serialised identity number. An inbuilt high precision GPS receiver provides accurate position information which is frequently updated to assist in quick recovery of persons in difficulty.



S10 AIS MOB Device target information can be viewed using standard ships AIS equipment such as Class A and Class B transponders and a wide selection of receive only AIS units. AIS equipped vessels and land based VTS stations within the local vicinity will also have visibility of the AIS MOB devices signal.

Whether displayed on the AIS itself or on a companion plotter or ECDIS screen, the unique alert message will clearly indicate the SmartFind S10's exact location, distance and bearing.

SmartFind S10 is buoyant, waterproof to 60 meters, will transmit continuously for a minimum of 24 hours and has a 5 year battery storage life. It also features a flashing indicator light, giving a localised visual fix and assisting in attracting attention after nightfall.

Manually activated personal safety device to aid recovery of persons in difficulty

- Transmits GPS target tracking information over AIS
- TX ID and position report transmitted every minute
- Small and light for unobtrusive carriage
- Waterproof, buoyant and fully submersible to 60 meters
- Flashing LED light
- Minimum 24 hour continuous operation
- 5 year battery storage life



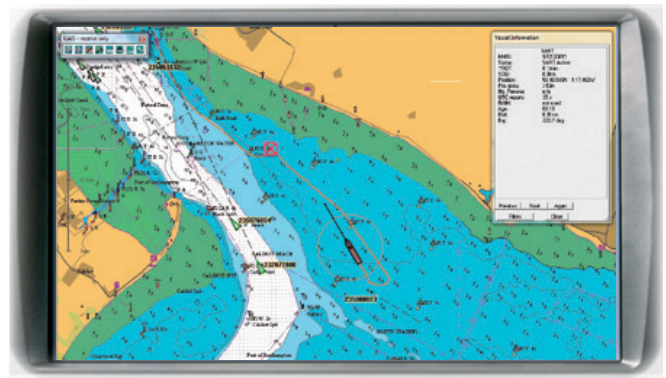
Can be used in conjunction with the McMurdo SmartFind M5 AIS Class A**

**and any AIS SART Alarm

How SmartFind S10 AIS MOB Devices works

- SmartFind S10 AIS MOB device is activated to attract attention.
- Alert is transmitted to all AIS enabled equipment within a 4 mile Radius (typical).
- AIS equipment* displays the alert icon (as displayed).
- Precise target survivor information including GPS position becomes viewable when the chart plotter/ECDIS** cursor is positioned over the alert icon.
- This information provides exact location, distance and bearing to 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 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 TX ID number, which in the S10 always begins with 972. This way you can differentiate the S10 from other vessels.



*Image shown is Euronav Software

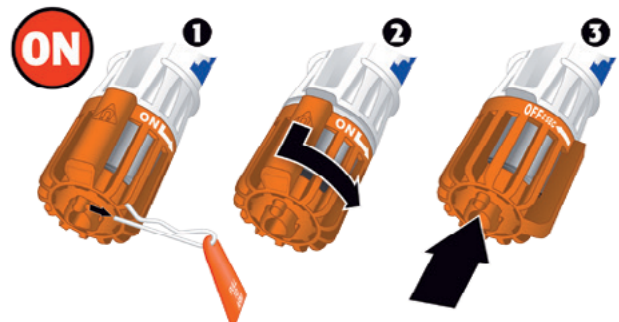
If in doubt, check with your plotter manufacturer how they display SARTs on screen.

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

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

Simple to activate

SmartFind S10 AIS MOB device is simple to operate, even in a gloved hand. When the person in trouble has been successfully retrieved from the water, the beacon can be switched off. A built in test facility indicates whether or not battery replacement is advised.



SmartFind S10 AIS MOB Device Specifications

STANDARDS APPLIED

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

ENVIRONMENTAL

Exterior finish
Sealing depth
Operating temperature
Storage temperature

Buoyant
Hi impact ABS/PC Translucent opal
Immersion to 60m (196 ft)
-20°C to +55°C (-4°F to +131°F)
-30°C to +70°C (-22°F to +158°F)

BATTERY

Type
Replacement
Use

6V Lithium metal
By service centre
Logged by microcontroller

OPERATION

Activation
Self test (short)
GPS Self test (long)

Manual two stage
Battery use indication
TEST transmission with GPS position

TRANSPORTATION

Air cargo

IATA UN 3091, not restricted

ELECTRICAL

AIS Transmitter
Frequency
Power
Transmit antenna
AIS messages transmitted

AIS channel 1- 161.975 MHz, AIS channel 2 - 162.025 MHz 2W nominal
Integrated PCB
Message 1 (TX ID, GPS position, SOG,COG,UTC); Message 14 (MOB-ACTIVE or MOB TEST)
Factory programmed

TX ID number
GPS receiver
GPS type
Antenna type
GPS position update

50 channel
Ceramic patch
Every minute

PHYSICAL

Length
Diameter at widest point
Weight
Deployment
Hands free
Hand held

199mm (7.8")
51mm (2.0")
186g (6.5oz)

SECURITY

Belt or arm pouch with head band strap included
Wrist lanyard included
lanyard fixing point

FUNCTIONAL

First transmission
Range
Secondary location device

After 18 seconds (no GPS)
4 nautical miles (typical)
Flashing white LED and status indicator

PART NUMBER

SmartFind S10 AIS MOB device retail pack

98-051-001A

