

# Smartfind S10 AIS Beacon

The Smartfind S10 AIS Beacon 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.



- Manually activated personal safety device to aid recovery of persons in difficulty
- Transmits GPS target tracking information over AIS
- Unique serialized ID
- 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

## SMARTFIND S10 AIS-BEACON 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

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  
Classification

IATA UN 3091, not restricted  
PI970 Section II

### 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 (ID, GPS position, SOG,COG,UTC)  
Message 14 (MOB-ACTIVE or MOB TEST)  
Factory programmed

ID number  
GPS receiver  
GPS type  
Antenna type  
GPS position update

50 channel  
Ceramic patch  
Every minute

PHYSICAL  
Length  
Diameter at widest point  
Weight

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

Deployment  
Hands free  
Hand held  
Security

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

FUNCTIONAL  
First transmission  
Range  
Secondary location device

After 15 seconds (no GPS)  
4 nautical miles (typical)  
Flashing white LED  
and status indicator

### PART NUMBER

Smartfind S10 AIS Beacon retail pack

98-051-001A

Dealer:

Orolia Ltd. Silver Point, Airport Service Road, Portsmouth. PO3 5PB. United Kingdom  
Tel: +44 (0) 23 9262 3900 Fax: +44 (0) 23 9262 3998  
E-mail: sales.mcmurdo@orolia.com www.mcmurdmarine.com

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orolia Group

mcmurdo  
safety for professionals

# Smartfind S10 AIS Beacon

NEW



Lifesaving for anyone  
who works on or around water

## What is Smartfind S10 AIS Beacon?

The Smartfind S10 AIS Beacon 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 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.

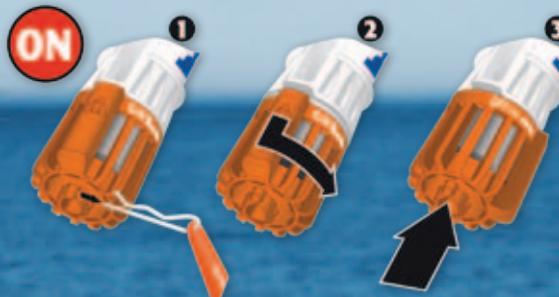
S10 AIS Beacon target information can be viewed using standard ships AIS equipment such as Class A and Class B transponders and a wide selection of receive only AIS units. AIS equipped vessels and land based VTS stations within the local vicinity will also have visibility of the AIS-beacon signal.

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.

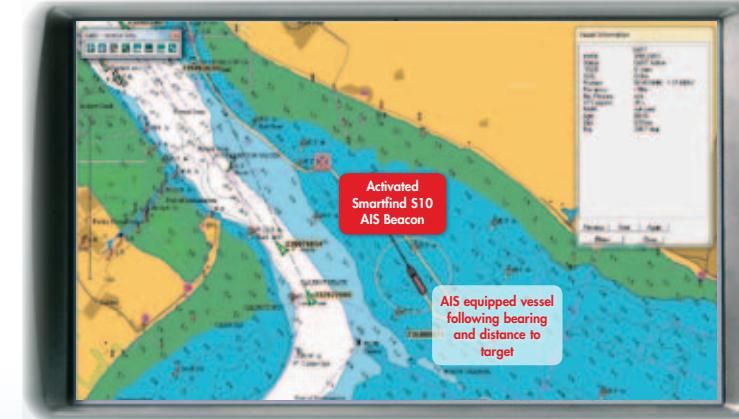
## Simple to activate

Smartfind S10 AIS Beacon 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.



## How Smartfind S10 AIS Beacon works

- Smartfind S10 AIS Beacon 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 (pictured below).



\*Image shown is Euronav Software

- 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 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 S10 always begins with 972. This way you can differentiate the S10 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.

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