



rescueME

MOB1

ocean
SIGNAL

Your Local Link
to Rapid Rescue



www.oceansignal.com

rescueME MOB1


rescueME MOB1 the world's smallest*
Man Overboard Locating Beacon



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Automatic Identification System

- Plots the position of the MOB on your AIS connected plotter
- Shows  symbol*
- And Distance and Bearing to person*
- Integrated 66 channel GPS
- Displays 'MOB ACTIVE' message*

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*DSC functionality is subject to regulations of country

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Digital Selective Calling

- Sounds alarm on ship's compatible DSC VHF radio
- Transmits position immediately GPS fix is obtained
- Optionally a manually activated All Ships Distress Alert can be transmitted

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*Compared to other products approved to recognised standards (Aug 2014))

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30% (typ) smaller by volume than the competitors

- And Lighter
- The world's most compact MOB allows for easy packing in a lifejacket
 - Even the smallest 150N types

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Automatic Activation

- Designed to clip on oral inflation tube
- Simply wrap supplied tape around lifejacket
- May be mounted on left or right hand side inflation tubes
- Automatically activates when lifejacket inflates



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 24+ hours operational life

 7 year battery replacement

 5 year warranty*

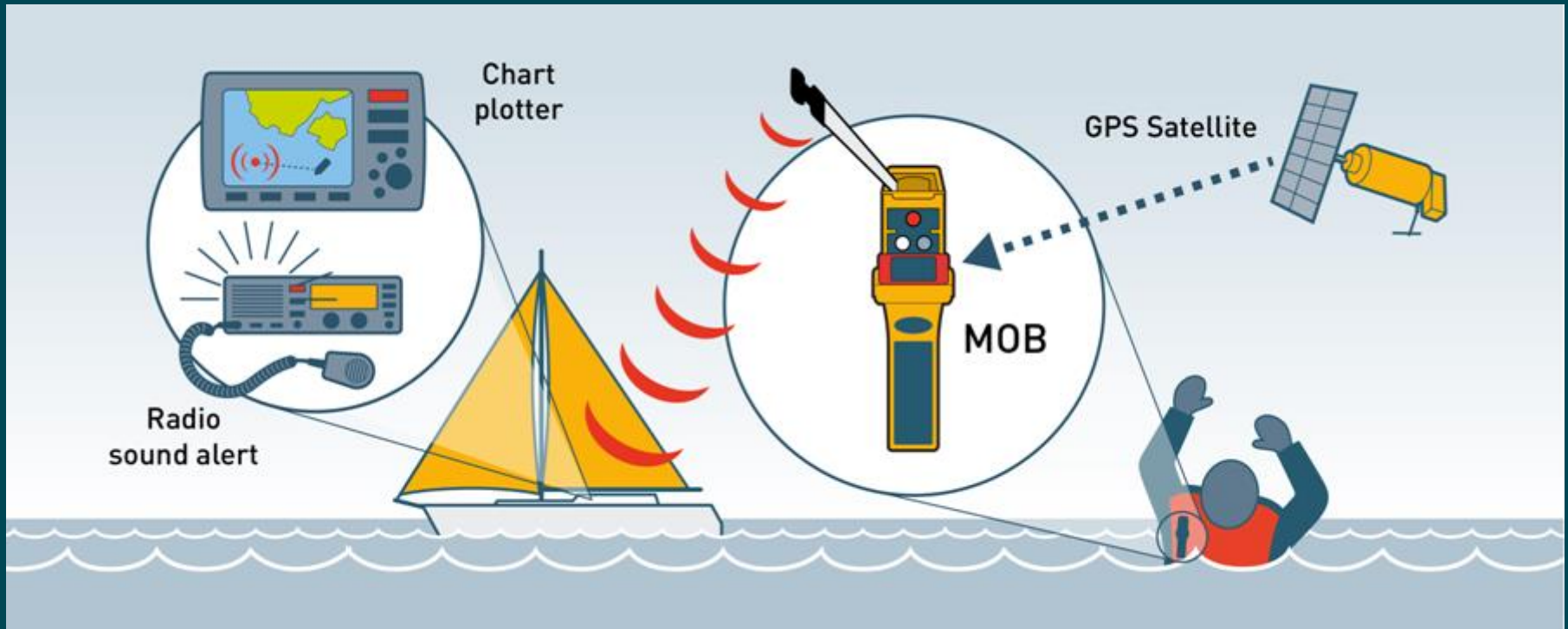


*Subject to warranty conditions

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Transmits AIS & DSC alerts direct to your vessel
with GPS position



MOB Comparison

								
Model	rescueME MOB1	McMurdo S10	McMurdo S20 / Kannad R10	sMRT AU10	sMRT V100	Easy-RESCUE	EasyONE	ACR AISLink
SSP	\$299.00	\$279.95	\$279.95	TBD	TBD	TBD	TBD	\$289.99
AIS	✓	✓	✓	✓	✓	✓	✓	✓
DSC*	✓	✗	✗	✗	✓	✗	✗	✗
Auto activation on LJ	✓	✗	optional ✓	✗	✓	optional ✓	✓	✓
Battery Life (hrs/-20C)	24+	24	24	12+	12+	96	24	48 (-10C)
Weight (g)	90	186	120	250	168	210	150	170
Dimensions (mm)	134x38x27	199x51	124x67x27	80x95x35	137x51x21	125x68x30	168x48x27	129x52x40

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Ocean Signal MOB1 and ACR AISLink.

What does the DSC add to the overall safety?

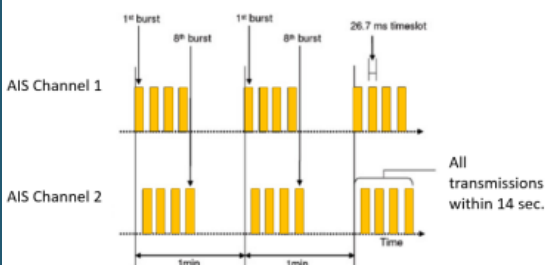
The Ocean Signal MOB1 and the ACR AISLink are widely known as a key safety product to integrate within your lifejacket. The MOB1 was DAME nominated when it was released.

What makes the MOB1 so special still and especially back in the days. Ocean Signal was the first to combine AIS and DSC within a beacon. Next to that its small size (therefore easy to integrate) and automatic activation upon lifejacket activation.

Which systems does the MOB1 combine?

AIS is intended primarily to allow ships to view marine traffic in their area and to be seen by that same traffic. It was not designed to be an alerting system at all. AIS uses SOTDMA (class A and Class B+ transponder) or CSTDMA (older class B transponders) for its transmissions. In order for a transponder to work properly it needs to build up a slot plan, (SOTDMA) or listen for an unused slot (CSTDMA). Next to that, to have proper alignment within the dedicated timeslot, a GNSS (e.g. GPS) fix needs to be obtained. All described above takes time, time that you don't have when dealing with an emergency such as a Man Over Board.

Transmissions from an AIS MOB are quite often referred to as being from an "impolite system" The SOTDMA scheme gives room (= a timeslot) for everybody to do transmissions, whereas an AIS MOB will, upon activation, make a transmission regardless of slot collision that may occur (lost transmissions)



Therefore an AIS MOB makes a sequence of transmissions increasing the chance that at least one of the transmissions will not collide with other transmission.



AIS MOB devices can be recognized by the MMSI number starting with 972, AIS SART's will start with 970 whereas AIS EPIRBs will start with 974.

The priorities for communication are Distress, Urgency, Safety and routine. A Distress DSC call is called an Alert. Urgency, Safety and routine are called Announcements.

The MOB1 can send various types of DSC messages. The type message with the corresponding functionality of the MOB1 is limited by regulations in each country.

AIS only: Canada, France, Denmark, Latvia

AIS + DSC Individual Distress Relay call plus group call sent after 30minutes: USA

AIS + DSC Individual Distress Relay call only: Germany, Netherlands, Spain, United Kingdom

AIS + DSC Individual Distress Relay, All Ships Distress Alert (manual initiation only): All other European countries

AIS + DSC Individual Distress Relay, All Ships Distress Alert, sent once on MOB1 activation and on manual initiation: Rest of the World.

ALL Ships = broadcast message

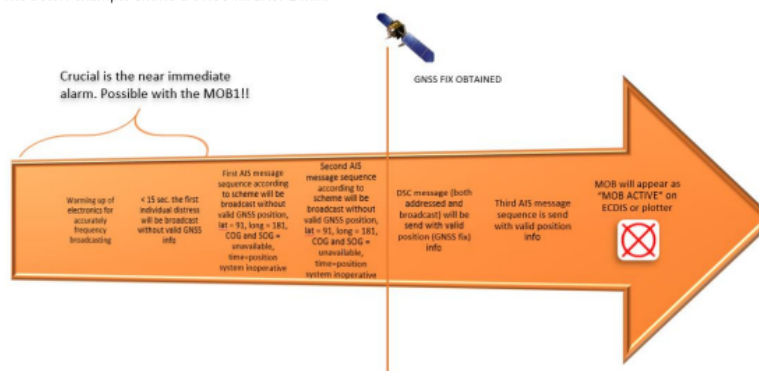
Individual=addressed message to a pre-programmed MMSI number of the vessel

Distress= priority of the message

Relay= sent from either another vessel, (not the case because it comes from a 972 mmsi number) or a station (MOB1) on behalf of a vessel in need of assistance.

Sequence of operation when activated

The below example shows a GNSS fix after 2 min.



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Man Overboard Locating Device