



**EPIRB1 – PRO Safe Sea EPIRB cat 1**

**NEW! MODEL RELEASE SHIPPING  
JUNE 2020**

**Auto Float Free Housing (CAT 1)**

Designed to  
withstand the  
impact of waves

Clear operating  
instructions

Auto release  
housing  
Protects  
EPIRB  
from the  
rigours of the  
environment



Easy release  
rotary knob to  
open housing



**HRU 1E**

**Ships Complete with Cat 1 Auto Float Free Housing**

**10 YEAR BATTERY LIFE  
(PLEASE REFER TO SURVEY REQUIREMENTS)**

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## EPIRB1 – PRO Safe Sea EPIRB cat 1

# WORLDS SMALLEST CAT1 EPIRB WITH GPS

**THE NEW EPIRB1 – PRO IS UP TO 30% SMALLER THAN OTHER  
COMMON CURRENT MODELS ON THE MARKET**

**SMALL IN SIZE BIG IN FEATURES**



### Features and Benefits:

Complies with MED (2014/90/EU) (CCS Certification pending)

- 406 MHz (link via satellite to emergency services)
- 121.5 MHz Homing Signal (to aid final locating by search & rescue)
- High Intensity Strobe
- 30% (type) Smaller
- 10 year Battery Life
- 2 Year Warranty
- 66 Channel GPS (fast accurate positioning)

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### EPIRB1-PRO Safe Sea EPIRB Overview

1.	<b>ON</b> Key located under tear off tag and Protective accidental activation flap	5.	2 insert molded Ultra bright LED Strobe Lights with custom len's
2.	Dual colour light status Indicator LED	6.	Easy access Test Switch
3.	Programming Details Label	7.	Lanyard (Under rubber band)
4.	Antenna	8.	Battery compartment
	66 Channel GPS	9.	HRU Hydrostatic release

### Auto Release and Float Free

At a depth of 4 m the Hydrostatic release (HRU) will eject the EPIRB from the housing and the EPIRB will float to the surface. The HRU must be replaced every 2 years once In service on the vessel.

Please refer to the manual for more detail - available for download

**NEW! EPIRB1 – PRO Safe Sea EPIRB cat 1**



Multiple hole mounting configurations for easy retro-fit

High Grade Magnet Deactivates EPIRB Water sensor

Use previous Ocean Signal/McMurdo/Jotron mounting holes for easy retro-fit installation



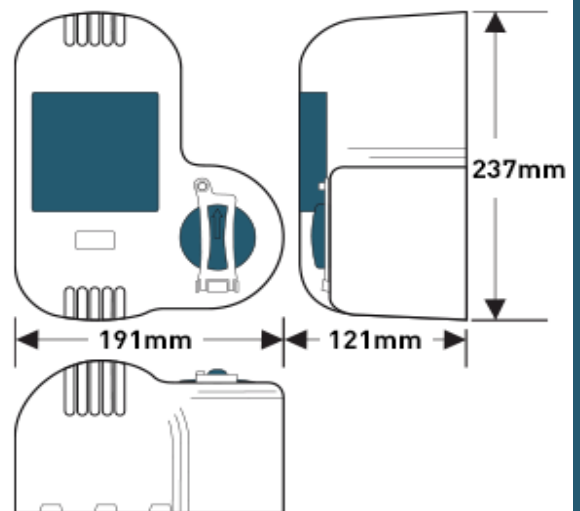
## Robust Housing

A View from the Rear of the Bracket

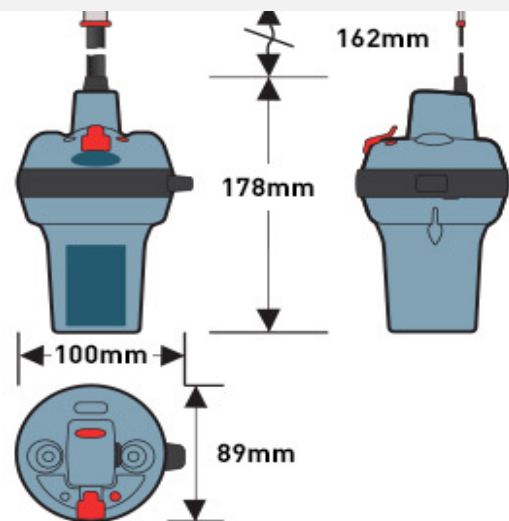
Easy add-on mounting Template plate included



### Dimensions



### EPIRB1-PRO Auto release Housing



Cat 1 EPIRB1-PRO







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## EPIRB1 – PRO Safe Sea EPIRB cat 1

Common Float Free EPIRB size comparison ( images not to scale)

					
Images not to scale	Ocean Signal	ACR	McMurdo	Jotron	GME
	EPIRB1 Pro	GlobalFix V4	SmartFind G8	Tron 60GPS	MT603FG
Output Power	5 Watts				
Battery Life	10 Years	10 Years (User Replaceable)	10 Years	5 Years	6 Years
Operational Life	48 Hours				
GPS Receiver	66 Ch	66 Ch	72 Ch	56 Ch	66 Ch
Warranty	2 Year	5 Year	1 Year	5 Year	6 Year
Distress Freq.	406 MHz / 121.5 MHz Homing				
MEOSAR	Yes				
Auto Deploy Bracket	Yes	Yes	Yes	Yes	No
Size (Auto Housing)	237 x 191 x 121 mm	400 x 157 x 150 mm	416 x 126 x 132 mm	385 x 151 x 154 mm	390 x 155 x 110 mm
Size (with Antenna Up)	340 x 89 x 100 mm	410 x 108 x 108 mm	423 x 104 x 103 mm	340 x 121 x 130 mm	390 x 102 x 83 mm
Weight EPIRB & Bracket / EPIRB Only	1250 g / 422 g	1874 g / 764 g	1785 g / 710 g	1530 g / 680 g	1555 g / 555 g

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### EPIRB1 – PRO Safe Sea EPIRB cat 1

As the world's most compact Emergency Position Indicating Radio Beacon, the EPIRB1 Pro pairs its compact stature with a durable design, making it a practical option to meet the needs of all commercial, fishing, and leisure vessels. The product has been designed for maximum efficiency and boasts a 10 year battery life in addition to superb operating life when activated, keeping rescue services updated with your location for longer.

Specification	EPIRB1 - Pro
Product Description	Category I GPS EPIRB
Part Number	702S-03401
Satellite Transmission	406.040 MHz (12W Max. EIRP)
Homing Transmission	121.5 MHz (50mW nominal)
Size (no antenna)	7.0" x 3.5" x 3.9" (178mm x 89mm x 100mm)
Weight (Beacon)	0.91 lbs (420g)
Weight (Beacon and Housing)	2.8 lbs (1.25 kg)
GPS	Internal GPS (66 Channel)
Strobe	LED Strobe
Battery	Class 2 (non-hazmat) lithium battery (LiMnO2)
Battery Replacement Interval	10 Years
Deployment	Category I - Hydrostatic Release (automatic deployment)
Activation	Automatic when out of bracket and wet or manual when in or out of bracket.
Waterproof	33 ft (10 m) for 1 hour
Operational Life	48 Hours minimum @ -4°F (-20°C)
Operating Temp.	-4°F to +131°F (-20°C to +55°C) (Class 2)
Storage Temp.	-22°F to + 158°F (-30°C to +70°C) (Class 2)
Limited Warranty	2 Years
Automatic Release Housing Release Depth	13 ft. (4m) Maximum
Automatic Release Housing Dimensions	9.3" x 7.5" x 4.8" (237mm x 191mm x 121mm)
Approvals Please contact Ocean Signal for current approvals .	MED & Cospas-Sarsat Pending: FCC, USCG, IC, AMSA, CCS



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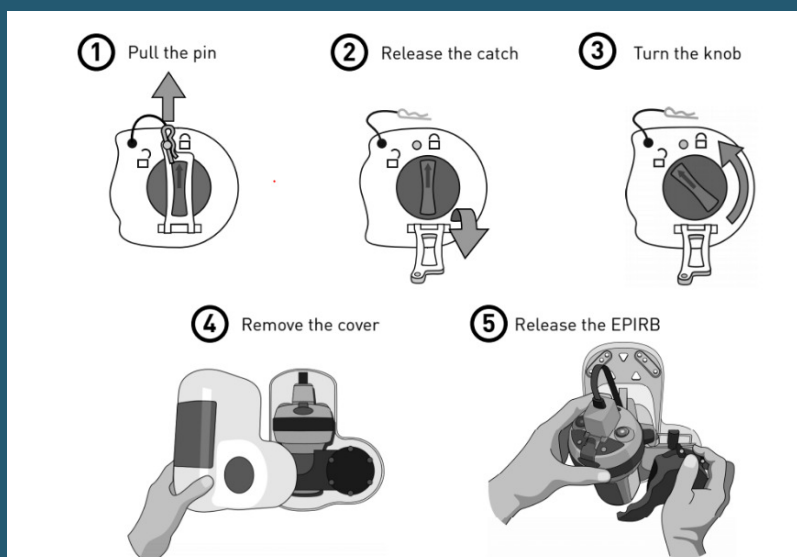


## EPIRB1 – PRO cat 1 Operation

### Manual activation:

#### Following Removal from auto housing:

1. Remove the pin
2. Release the safety catch from the release knob
3. Turn the knob anti clockwise to release the cover
4. Pull the cover free and discard
5. Lift the Hydrostatic clip and remove the EPIRB1 Pro from mount



6. Break off the red protective tab from the top of the EPIRB1 Pro
7. Lift the yellow fl ap up to expose the Red ON/OFF button.
8. Press and hold the red button for 1 second to activate.(Until the green LED starts to flash)



The EPIRB1 Pro will now be operational. The strobe lights will begin to flash at a rate of once every 2.5 seconds as soon as the unit is activated.

A Lanyard is provided to tether the EPIRB1 Pro to the lifeboat or life raft to ensure that it does not drift away. Make sure this is firmly attached.





#### **EPIRB1 Pro Automatic Operation:**

The EPIRB1 Pro will sense when it has been placed in water and automatically begin to operate after a short delay, in the same manner as described on the previous page.

- **If the EPIRB1 Pro is mounted in the float free housing this function is disabled until the EPIRB1 Pro has been released Automatically or manually.**

When the EPIRB1 Pro is mounted in the float free housing in the event that the vessel sinks the EPIRB1 Pro will automatically be ejected from the housing allowing it to float to the surface and begin transmission.

<b>EPIRB Mode 2 seconds</b>	<b>Green Indicator</b> 	<b>Red Indicator</b> 
Initial EPIRB activation	On for 1 second	
Acquiring GPS position *	1 Flash every 5 seconds	
GPS position acquired*	3 Quick flashes	
121.5MHz Tx **		1 Flash, with strobe light, Every 2.5 seconds
406MHz Tx		Flash for 2 seconds
406MHz Tx with GPS position*	5quick flashes	
406MHz without valid GPS position*		5quick flashes
Note: The first alert is transmitted after 50 seconds to allow time to deactivate unit if accidentally turned on. The homing beacons is not activated until the first 406 Mhz alert is sent.		

#### **Deactivation:**

Deactivation if Manually Activated:

If the EPIRB1 Pro has been inadvertently activated or the emergency situation has passed, it can be turned off simply by pressing and holding for 2 seconds the TEST key.

It is not possible for the user to replace the red protective cover. Return the EPIRB1 Pro to an Ocean Signal authorised service centre for checking and replacement.

Deactivation if Automatically Activated:

If the EPIRB1 Pro was automatically activated by placing in water, remove from the water and dry.

The EPIRB1 Pro will automatically switch off after approximately 30 seconds. Should the EPIRB1 Pro fail to deactivate, bend the antenna down and completely wrap in several layers of aluminium foil , or place in a metal container with a tight fitting lid

Please refer to the manual for more detail available for download

## **NEW! EPIRB1 – PRO Safe Sea EPIRB cat 1**





### EPIRB Testing:

Routine testing of your EPIRB1 Pro is recommended to ensure it is in good working order if needed in an emergency. Monthly testing is recommended, but remember that each test will reduce the battery capacity and reduce the time of your EPIRB 1 – PRO during an emergency

### Beacon Test

- Ensure the antenna is free and above the EPIRB1 Pro before commencing the test. Fold the antenna back behind the EPIRB1 Pro as you replace it in the housing.
- Because the test transmits a short burst on the aircraft distress frequency of 121.5MHz, please only carry out this test in the first five minutes of each hour.
- It is recommended to test your EPIRB1 Pro once a month.
- The amber test result indicates the battery has been used for over one hour or the recommended number of tests has been exceeded. The EPIRB1 Pro will still operate normally in distress, but the battery should be replaced to ensure the full operating life when your EPIRB1 Pro is needed.

To test your EPIRB1 Pro is functioning correctly, press and hold the TEST key for at least one second. The red LED will come on to indicate the switch is depressed, followed by the red LED flashing rapidly, indicating test mode is activated. The switch may now be released. The strobe light will flash once (indicating that the 406 and 121.5MHz signal has been transmitted).

After a short pause, the indicator LED will produce a flash sequence:

Self Test Result Indicator		
No. of Flashes	Test Past No. of Hours Used	Type of Failure
1 Flash	0 to 1hr (Green)	121.5MHz homer
	1 to 2hrs homer (Amber)	
2 Flashes	2 to 4hrs (Amber)	406MHz generation
3 Flashes	4 to 6hrs (Amber)	406MHz power
4 flashes	6 to 8hrs (Amber)	Faulty battery
5 Flashes	8 to 10hrs (Amber)	Other failure
6 Flashes	Over 10hrs (Amber)	
<b>This flash sequence is repeated a second time after a short delay and then the EPIRB1 Pro will automatically turn off.</b>		

The number of green/amber flashes in each group indicates the number of hours the battery has been used for as shown in the table

Please refer to the manual for more detail available for download