



SERVICE INFORMATION LETTER (Limited Serial Number Range)

Ocean Signal SafeSea E100/E100G EPIRB (2019-12-16)

- SUBJECT:** Required Safety Check and Self Testing of Ocean Signal E100/E100G Emergency Position-Indicating Radio Beacons (EPIRBs)
- SUMMARY:** Ocean Signal Ltd. is continually monitoring the serviceability of its products to ensure they are maintained in optimum condition to meet regulatory and manufacturer's requirements.

Ocean Signal have recently been sent a small number of E100G used in tropical conditions. Some of these EPIRBs demonstrated symptoms that have caused current to be drawn during storage, resulting in complete discharge of the battery before the expiry date had been reached.

This failure is

- Only believed to have affected a small proportion of units within the range of serial numbers listed in section 3.

This service advisory notifies customers of the Ocean Signal E100/E100G that they must perform a self-test on their EPIRBs as recommended in the product User Manual. The test should be performed as soon as practically possible. All Ocean Signal EPIRBs should be routinely tested per the user manual on a monthly basis. All Ocean Signal beacons are designed to have sufficient capacity to accommodate a monthly self-test over the lifetime of the battery.

MODELS AFFECTED BY THIS NOTICE: Ocean Signal SafeSea E100/E100G Emergency Position-Indicating Radio Beacon with serial numbers in the ranges listed below.

0060109540P - 0060812094P
0060313664Q - 0060516300R
0060500001R - 0060500186R

- APPLICABILITY:** Emergency Position-Indicating Radio Beacon Monthly Maintenance and Self Testing
- REFERENCES:** Marine Equipment Directive 2014/90/EU
- ACTION:** Owners of the SafeSea E100/E100G Emergency Position-Indicating Radio Beacons are asked to perform the monthly self-test as soon as practically possible. To perform the self-test, follow the below self-test instructions from the product User Manual Document Part Number: 912S-00624:

Activate Test Mode by rotating the grey test switch clockwise and holding for 1 second, until the LED indicator begins to

rapidly flash Green, then release the test switch. This will initiate a self-test - be prepared to monitor the number of LED indicator flashes upon completion of the test.

The self-test monitors the 121.5MHz homer RF power, initiates a satellite transmission in order to measure key performance parameters, will monitor the 406MHz RF power, synthesiser lock and battery voltage under load. The self-test message is designed to prevent the satellite forwarding an alert message during self-test.

After the satellite transmission the strobe light is flashed, demonstrating operation.

A successful test is determined by a series of Green LED flashes - between one and six flashes, this sequence is repeated after a 2 second delay. A failure is determined by a series of Red LED flashes - between one and five flashes, this sequence is repeated after a 2 second delay.

The Green LED shows how many hours of use the EPIRB has undergone on the current battery. The Red indicator shows the failure condition.

Failure to follow the correct test activation procedure may result in either no activation or the LED flashing red/green; release the switch.

Wait one minute before repeating the self-test.

For a video tutorial on performing a self-test on the Ocean Signal SafeSea E100/E100G please visit:

<http://oceansignal.com/products/e100e100g/>

- 5.1. With a successful self-test, please check the battery expiration date and ensure your beacon registration has not expired. Customers are requested to continue testing your EPIRB monthly in accordance with the product User Manual.
- 5.2. Should the first attempted self-test fail please wait approximately one minute for the EPIRB's circuitry to completely reset before repeating the self-test. Be sure to watch the video tutorial at <http://oceansignal.com/products/e100e100g/>
 - 5.2.1. If you re-confirmed a failed self-test that either shows a red response or no response from the indicator at all, immediately contact Ocean Signal to obtain a Return Material Authorization number and instructions to have the beacon replaced.
 - 5.2.2. To contact Ocean Signal Customer Service and Technical Support:
 - 5.2.2.1. Telephone: +44 (0) 1843-808716
 - 5.2.2.2. Email: info@oceansignal.com
 - 5.2.2.3. Website: <http://oceansignal.com/contact/>

Green Indicator		Red Indicator	
No of Flashes	No of Hours Use	No of Flashes	Type of Failure
1 Flash	0 to 1 hr 59min	1 Flash	121.5MHz homer
2 Flashes	2hrs to 3hrs 59min	2 Flashes	406MHz generation
3 Flashes	4hrs to 5hrs 59min	3 Flashes	406MHz power amp
4 Flashes	6hrs to 7hrs 59min	4 Flashes	Replace battery
5 Flashes	8hrs to 9hrs 59min	5 Flashes	Other failure
6 Flashes	1 Dhrs +	Important: Wait one minute before next test	



6. Service and Support: If you have any questions about this Service Information Letter or require any further information please contact the following: David Sheekey, Type Approval and QMS Facilitator for Ocean Signal at +44 (0) 1843 282937 or David.Sheekey@oceansignal.com. Visit our website www.oceansignal.com to learn more about our products and support network.