Warranty Information

Your Ocean Signal product is warranted against manufacturing defects in materials and workmanship for a period of 2 years from the date of purchase and in accordance with the following conditions.

Ocean Signal will at its discretion, repair or replace faulty product free of charge excluding the cost of shipping. Proof of purchase shall be required in order for a warranty claim to be valid from the original purchaser. All claims shall be made in writing to Ocean Signal or an approved service dealer or distributor.

Ocean Signal shall not be liable to the buyer under the above warranty:

- for any repairs or modifications carried out on the product using parts that are not supplied or approved by the manufacturer Ocean Signal including batteries and for work carried out other than by Ocean Signal or approved service dealers,
- for any part, material or accessory that is not manufactured by Ocean Signal the consumer will be covered by the guarantee / warranty offered to Ocean Signal by the manufacturer or supplier of such a component, for product which has not been fully paid for,
- for any product supplied by Ocean Signal to a customer under an alternative warranty or commercial agreement, for the cost of shipping product from the customer to Ocean Signal.

The Battery is only warranted until the date of expiry and provided the unit is tested in accordance with the information in the user manual as noted by the electronic witness stored within the product.

The following specific item is excluded from this warranty:

Damage to the antenna

This warranty does not affect your statutory rights.

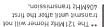
Extended Warranty



ENTER YOUR PRODUCT DETAILS TO GAIN THE EXTENDED WARRANTY PERIOD

Apply for free at www.oceansignal.com/warranty

our product details you can add 3 years to the warranty period. s on extended warranty on this product see www.oceansignal.co



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epeated once every minute. əsuənbəs e se (spuosəs z eyow as 8 flashes (1 every Iliw anoisaimanat 2IA adT *

reet changeable function. Non-RLS Protocol is usually country specific and is not a :3TON

		z č.S ynev∃	[[x]
	121MHz	**e G.S y19v∃	(lx)
Fix acquired	S I ∀	*Jimenent JA	(8x)
xiH oN	S I ∀	*timenent tA	(8x)
Fix acquired	ZHW907	timenent tA	(SX)
No Fix	ZHW907	timens tA	(Gx)
Fix acquired		Once	(Ex)
Searching		Every 5 s	(lx)
еизг	Transmit	мүнөи	ГЕВ

LED Indications for units configured with non-RLS Protocol

			Every 2.5 s	[[x]
Верlу гесеіved		ısımhz	**e C.S y1ev=	(1x)
Reply not received		ZHMIZI	**e č.S vnev∃	(1x)
	Fix acquired	S I ∀	*Jimens1 JA	(8x)
	No Fix	S I ∀	*Jimens1 JA	(8x)
Request sent	Fix acquired	ZHW907	fimenent tA	(cx)
Request sent	xi4 oN	ZHW907	timenent tA	(cx)
	Fix acquired		Once	(£x)
	Searching		Every 5 s	([[x]
вгг	еигг	Transmit	мреи	G37

LED Indications with RLS Enabled

- To turn off the beacon press and hold the TEST/OFF button until the red LED flashes twice.
- to avoid interference with other users.
- Always turn off the PLB3 immediately after you have been rescued
 - the PLB3 on by pressing the ON Key If the strobe light does not start flashing, manually switch

Following activation ensure the antenna is fully released and the unit has the best possible view of the sety for optimal performance.







MANUAL ACTIVATION Use only in situations of grave and imminent danger

IN CASE OF EMERGENCY





Personal Locator Beacon (Incorporating AIS)



DOWNLOAD THE FULL USER MANUAL

GET THE MOBILE APP. TO SEE YOUR BEACON'S TEST **INFORMATION**





OWNER DETAILS Name

CONTACT

BEACON REGISTRATION It is the owner's responsibility to register this beacon with the appropriate National authority before operation.

Documentation is provided within the packaging with information regarding registration with the relevant body to comply with the configuration requirements of the beacon.

ATTACH YOUR BEACON DETAILS HERE

AIS' I

PLB3 ocean

> brecisely than any other system. Emergency service craft are fitted with AIA receivers allowing the water more receivers to the water more received in the water more received.

effect a rescue quicker than the emergency services. device will activate an alarm on all AIS equipped vessels with a compared to the compared with the compared to the compared to

AIS systems operate on VHF radio bands and transceivers are fitted to all commercial shipping and an ever growing number of recreational vessels globally. Shortly after activation an AIS Man Over Board

AIS System

specification can be found here: https://gsc-europa.eu/sites/default/files/sites/all/files/Galileo-SAR-SDD.pdf

icantly longer). RLS is an optional function and may not be permitted in all countries. The full RLS to the SAR authorities. It does MOT mean that a search and rescue mission has been launched, but only man that the disturbed search and rescue mission has been launched, but only confirms that the disturess after has been received by the Cospes-Search and an extraowledgment to thre beacon routed to the appropriate SAR agencies. The RLS aims to send an acknowledgment to thre beacon routed to the page of the company of the c The Galileo Return Link Service IRLS is a free-of-change global service available to Gospas-asel that RLS compatible beacons. The RLS leature is an indication on the PLB3 that confirms to the User that which distributes the public paper of the properties of the properties and the properties and the public service of the public paper and public public properties and public public properties and public pu

Return Link Service

satellites in low-altitude Earth orbit (LEO) which form the LEOSAR System
 satellites in possible one yearth orbit (LEO) which form the CEOSAR System
 many were in terms of better satellite coverage, faster alerts and improved detectability and is also many users in terms of better satellite coverage, faster alerts and improved detectability and is also many users in terms of better satellite coverage, faster alerts and improved detectability and is also many users in terms of better satellite soverage. Faster alerts and improved detectability and is also

- - The Cospas-Sarsat System includes two types of satellites:

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- Rescue Coordination Centers (RCCs), Search and Rescue Points 0f Contacts (SPOCs) or other
 - radio beacons ground receiving stations, referred to as Local Users Terminals [LUTs], which receive and proceas the satellite downlink signal to generate distress alerts Mission Control Centers (MCCs] which receive alerts produced by LUTs and forward them to

gefect the signals transmitted by distress

distress situations instruments on board satellites in geosta-fitonal y and low-altitude Earth orbits which forest the dispersional putlistress personal use) which transmit signals during

distress radio beacons (ELTs for aviation use, EPIRBs for maritime use, and PLBs for

adjacent figure. The System is composed of: The basic Cospas-Sarsat concept is illustrated in the

COSPAS/SARSAT System

ABOUT YOUR PLB3

2. **OPERATION**



WARNING:

Use only in situations of grave and imminent danger. Deliberate misuse may result in a severe penalty.

Ensure that your PLB3 is always fitted with an unused battery that is within the marked expiry date. Failure to do so may result in reduced operating time when used in a real emergency. Please observe the recommendations on testing in section 3 of the User Information.



When fitted to a life jacket, to prevent accidental activation, ensure the clear cover is fitted over the grey slider as described in Section 5 of the User Manual with enough free length of the activation tage so it will not pull on the slider during normal activity of the life jacket. When carrying the PLB3 ensure the Arming Slider is in the up position.



To prevent loss always secure the PLB3 to your person or life jacket using the supplied lanyard.



Hold the PLB3 with the antenna standing vertically. Keep the area marked 'DO NOT OBSTRUCT' below the red arming slider in clear view of the sky. Covering this area will interfere with the GNS5 reception and may reduce position accuracy.

Activation when installed in a life jacket 2.1

When correctly packed in a life jacket the PLB3 will activate when the life jacket inflates. Should the life jacket fail to fully inflate, it may be necessary to assist the Activation Slide by pulling on the Activation Tape to fully release the Activation Slide.



For installation details see the full User Manual:

Manual Activation 2.2

oceansignal.com/products/plb3



Only activate your PLB3 in situations requiring assistance in an emergency.

Deliberate misuse of your PLB3 may result in a fine.

To manually activate your PLB3 in an emergency: Slide the red Arming Slide down. Slide the grey Activation Slide to the Left or Right.



Take great care to keep well clear of eyes and face as the antenna will be released very quickly. Keep at least 30cm (12") clear to avoid possible injury.

If the PLB3 fails to activate when the slide is removed, press the ON Key until the green LED (blue if RLS in enabled) illuminates for 1 second and starts flashing. Release the key.

Optical Indications on activation

- The LED green will illuminate (blue if RLS in enabled) for 1 second.
- The strobe light will start flashing.
- Within 30 seconds of activation, the indicator LED will flash indicating AIS transmission.
- Within 50 seconds of activation, the indicator LED will flash a quick burst of 5 indicating

Deactivation

To deactivate your PLB3 after use or if it is accidentally activated, press the TEST/OFF Key until the red LED flashes twice, then release.

3.2 **GNSS Test**



This test should only be performed where the PLB3 has a clear and unobstructed view of the sky. This is required to allow the GNS5 receiver to acquire a signal from sufficient satellites to allow it to determine a position. Ensure the area marked "GNSS Antenna" is not obstructed.

Press and hold the TEST key. The LED will illuminate red to indicate the key has been pressed, then start flashing. Shortly after, the LED will cease flashing and become a steady red light.

Release the TEST Key when the LED is steady.

During the GNSS test the LED will repeat a short green flash until either a position fix is obtained or the GNSS test fails.

A successful test will be indicated by long red of followed by a number of green LED flashes and an unsuccessful test will be indicated by a number of red LED flashes. The number of flashes indicates the number of GNSS tests remaining (e.g. 7 flashes = 7 tests remaining). The test result flashes will be repeated after 2 seconds.

The test result hashes will be repeated after 2 seconds. If there are 10 or more tests remaining then the LED will flash 10 times only (repeated). The PLB3 has the capacity to carry out 60 GNSS tests within the lifetime of the battery. If there are no tests remaining immediately after the current test, the LED will flash green or red a rapidly for three seconds (not repeated) depending on whether the GNSS test was successful or not, respectively.

When there are no tests remaining, the LED will flash red rapidly for three seconds (not repeated). The test can be ended at any time by holding the TEST key for three seconds.

Special note for Commercial and DoD Users 3.3

Should it not be possible to maintain the suggested test schedules, the interval for the two tests

Recommended:

Section 3.1 Functional Test: monthly Section 3.2 GNSS Test: Required: Section 3.1 Functional Test: 6 monthly Section 3.2 GNSS Test: Annually

For further information regarding Self Test and Self Test history use the Ocean Signal App. to connect to your PLB3 using Near Field Communication (NFC). GET THE MOBILE APP.:







APPROVALS

For approval documents see: https://oceansignal.com/approvals-documents/

4.1	USA
!	Pending
4.2	Canada
!	Pending
4.3	Furguean Declaration of Conformity

Ocean Signal Ltd. declares the radio equipment type PLB3 is in compliance with Dir. 2014/53/EU.

UK Pending Australia / New Zealand

TESTING

Routine testing of your PLB3 once a month is highly recommended to ensure it is in good working order. Follow the notes below on the frequency that tests should be carried out. Remember that each test will reduce the battery capacity and reduce the operation time of your PLB3 during an



When carrying out any test the antenna should be extended.
If the PLB3 activates during the removal of the antenna retainer, press and hold the
TEST/OFF button until the LED flashes red twice to deactivate.
See section 2.6 of the user manual for antenna rewind instructions.

Should a test fail it is advised to repeat the test to confirm failure before returning the PLB3 to Ocean Signal or an approved service agent.

Functional test

To test your PLB3 is functioning correctly, press and hold the TEST/OFF Key. The LED will illuminate red to indicate the key has been pressed, then start flashing. Release the TEST Key now. After a short pause the strobe will flash and the indicator LED will produce a flash sequence.

The flash sequence indicates the total number of hours that the battery has already been in use, up to the time that the test was initiated.

LED Indications with RLS Enabled

No. of Flashes	Functional Test Pass	Fail
1	0 to 59min 🥟 1hr to 1hr 59min 💓	121.5MHz homer 🌉
2	2hrs to 3hrs 59min 💓	406MHz power
3	4hrs to 5hrs 59min 💓	AIS signal 🌉
4	6hrs to 7hrs 59min 💓	AIS Power
5	8hrs to 9hrs 59min 💓	Battery failure 🌰
6	10hrs + 🌉	No GNSS

LED Indications for units configured with non-RLS Protocol 3.1.2

No. of Flashes	Functional Test Pass	Fail
1	0 to 59min 🥟 1hr to 1hr 59min 🧓	121,5MHz homer
2	2hrs to 3hrs 59min 🧶	406MHz power
3	4hrs to 5hrs 59min 🦲	AIS signal 🥌
4	6hrs to 7hrs 59min 🦲	AIS Power
5	8hrs to 9hrs 59min 🧶	Battery failure 🍎
6	10hrs + 🦲	No GNSS

Because this test transmits a short burst on the aircraft distress frequency of 121.5MHz, please only carry out this test in the first 5 minutes of each hour. The battery must be replaced either prior to the expiry date shown on the rear label or after the PLB3 has been activated.

arter the PLB3 has been activated.
If, during a self test, the LED flashes magenta or amber the PLB3 may not have sufficient energy to operate for the specified 24-hour period. Battery replacement is

Specifications

406MHz Transmitter Transmit Power

5W Typical 406.031 MHz ±1KHz Phase ±1.1 Radians (16K0G1D) Biphase L 400 bps Frequency Modulation

AlS Transmitter
Transmit Power (EIRP)
Frequency
Baud rate 1Watt ±3dB 161.975/162.025MHz ±500Hz 9600baud Synchronisation Messages Repetition interval Message 1 (Position), Message 14 (Status Message 14 sent twice every 4 minutes

121.5MHz Transmitter Transmit Power (PERP) Frequency Modulation Modulation Modulation Factor Modulation Duty Cycle Frequency Stability Duty Cycle

25-100mW Swept Tone AM (3K20A3X) 0.85-1.0 ±50ppm 98%

Visible Light Strobe Light Type Light Colour Intensity Flash Rate

High Intensity LED White >1 candela 20-30 per minute

Infra Red Strobe

Light Type Light Colour Intensity Flash Rate

IR LED 850nm 7.5mW/sr 20-30 per minute

Battery

Type Operating lifetime Lithium Metal Weight (for air transport) Replacement Interval

Lithium/Iron Disulfide (Li/FeS2) >24hours @ -20°C (-4°F) 42g per battery 6 years from date of manufacture or 5 years from being placed into service

GNSS Receiver Satellite Channels Satellite Unannels Sensitivity Cold Start Re-acquisition GPS Antenna

72 acquisition -167dBm -148dBm Microstrip Patch

Environmental

ental
Temperature range (operational)
Temperature range (storage)
Damp Heat (humidity)
Drop (hard surface)
Water immersion
Thermal Shock

Class 2 -20°C (-4°F) to +55°C (+131°F) Class 2 -30°C (-22°F) to+70°C (+158°F) 40°C (104°F) at 93% 1m : 6 sides] >10m (1.0bar) : >60minutes 45° into 100mm of water : >1hour

General

Category (Ref RTCM 11010) Class (Ref RTCM 11010) Group (Ref RTCM 11010) Size (Length / Width / Depth) Weight

200mm (7.87") / 36mm (1.41") / 22mm (0.86["]) 190g (0.42lbs)