PLB3

Personal Locator Beacon with AIS and Return Link Service

Specification

Part Number: 732S-03668
Model Number: PLB3

Activation
Manual or Semi-Automatic when fitted to a compatible life jacket

Class
Class 2 Operation (@ -4°F / -20°C)

Buoyant
No (optional flotation jacket available)

Size
7.87" (L) x 1.41" (W) x 1.81" (D)
20.0 cm (L) x 3.6 cm (W) x 3.0 cm (D)

Weight
0.42 lbs (190 g)

Operational Life
↑24hours @ -20°C (-4°F)

Temperature Range
Storage: -30°C to +70°C (-22°F to +158°F)
Operating: -20°C to +55°C (-4°F to +131°F)

Waterproof
Yes

Battery
Non-rechargeable Lithium Batteries

Battery Replacement
Due 6 years from date of manufacture or 5 years after beacon is placed into service, whichever is first, or after emergency use.

Warranty
5 Years

Approvals (Pending)
Cospas-Sarsat, FCC, Canada, RED, AMSA

Key Features

- Return Link Service Compatible
- AIS Locating Signal
- Simple Life Jacket Integration
- GPS, Galileo, and Glonass
- 5 Year Battery Life
- Rugged and Waterproof
- 24 hours Operation
- Visible and IR Strobe

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PLB3

Personal Locator Beacon with AIS and Return Link Service

Your worldwide link to emergency services

With the introduction of Automatic Identification System (AIS) functionality, Return Link Service (RLS) technology, and Near Field Communication (NFC) capabilities in one 406 MHz Personal Locator Beacon (PLB), the rescueME PLB3 represents a significant step forward in the evolution of PLB's.

The merging of 406 MHz and AIS distress messaging effectively pairs both global and local rescue, thereby maximizing access to the most effective rescue resources available. Addition of NFC allows for mobile app connectivity and interaction with the PLB that has never been possible before.

- Mobile App Connectivity
- Galileo Return Link Service Capable
- 406 MHz & 121.5 MHz Signals
- AIS Locating Signal

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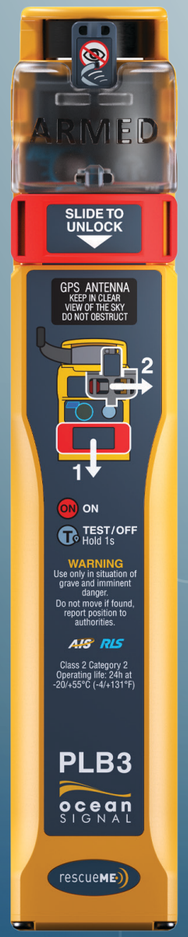
The Worldwide Cospas Sarsat satellite system includes 3 different constellations to ensure your 406 MHz distress signal immediately reaches the global network of Search and Rescue forces with your location accurate to within 100 meters. With multiple levels of integrated signaling technology including 406 MHz and GNSS (GPS, Galileo, Glonass) positioning, the PLB3 also transmits a 121.5 MHz homing signal which guides Search and Rescue services to the beacon's current location when they arrive on the scene, as the beacon may have drifted from the originally transmitted position.

The addition of AIS (Automatic Identification System) transmissions means the PLB3 simultaneously alerts all vessels equipped with AIS transponders within the VHF radio range of the PLB's distress position. This greatly increases both the likelihood and speed of rescue since nearby vessels receive the alerts. Immediately upon deployment of the beacon an AIS Safety Message or MOB Alarm with the beacon's MMSI and location is presented on any AIS screen within range. This makes it easy for nearby vessels to home in on the beacon since it is an active AIS target on their screens.

The PLB3 will light the way as rescuer arrive on scene with both a white visible strobe and infrared strobe providing rescuers with the visual reference they need during nighttime or other low visibility rescue operations.



Smartphone Connectivity utilizing Near Field Communication (NFC)

The integration of NFC technology provides users with the ability to conveniently access beacon data from their mobile phone. The simple act of placing a phone near the beacon automatically opens the Ocean Signal Product App and provides access to a wealth of usage data including current battery life, number of self-tests completed, number of GNSS tests completed, and if applicable, the amount of time the beacon has been activated.

Detailed information on each self-test and GNSS test performed by the beacon is also available if desired. For each successful GNSS test, users can view a map showing exactly where the test was performed, the date and time of the test, the time it took the beacon to get a fix on your GNSS coordinates, the number of satellites the beacon used to obtain that fix, and the accuracy of the location.

AIS Local Beacon Broadcast

A local rescue response along side a global emergency signal

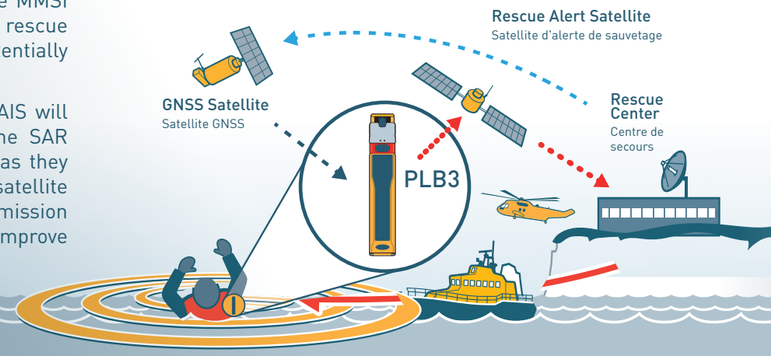
With advanced AIS technology now incorporated into the PLB3, directly upon activation the beacon starts transmitting AIS signals so that nearby AIS equipped vessels are instantly notified of the distress situation and are provided the beacon location. AIS equipped vessels within VHF range will see a safety message on their screens that includes the MMSI vessel identification. Local vessels can start rescue and recovery operations immediately, potentially speeding recovery times and saving lives.

Even when no local vessels are available, AIS will speed recovery times by allowing maritime SAR operators to pinpoint the EPIRB's location as they approach. The combination of Global satellite distress calling, precise GPIRB location transmission and local AIS safety messaging will greatly improve recovery time and success.

PLB3: How does it work?

PLB3: Comment ça marche?

- **406 MHz Signal** Signal RLS
- **AIS MOB Signal** Signal AIS MOB
- **Galileo RLS Signal** Signal RLS
- **GNSS Signal** Signal GNSS



Return Link Service (RLS)

Tells users that their distress call has been received.

Return Link Service or RLS functionality works when Search and Rescue send a signal back through the Galileo satellite network to confirm to the beacon user that their distress message has been received and their location detected. User confirmation is distinctly indicated by a flashing blue light on the PLB3. In addition to including a comprehensive feature set, the PLB3 is built for comfort.

Enjoy the peace of mind in knowing that your distress message has been successfully delivered and that help is on the way.

Life Jacket Integration

The PLB3 is designed to install within a life jacket and activate upon inflation of the jacket (semi-automatic).

Installation is made simple using the included oral inflation tube clip to attach the PLB3 to the life jacket with a ribbon connected around the bladder of the life jacket. Once correctly installed, the action of the life jacket inflating triggers deployment of the antenna and activation of the beacon.

Users not wishing to install the PLB3 within a life jacket have the option to utilize the included webbing clip to attach the beacon to an appropriately sized belt or the webbing of an inherently buoyant life jacket.