

# FAST FIND 220 PLB



**GPS**

**406MHz**

**121.5MHz**

**6yr**



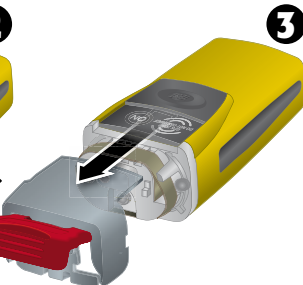
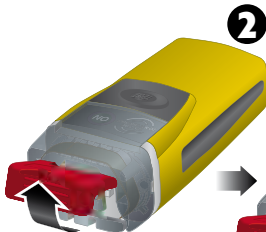
WITH POUCH

**NO**

**SUBSCRIPTION**

[www.fastfindplb.com](http://www.fastfindplb.com)





**ONLY PULL IN AN EMERGENCY**

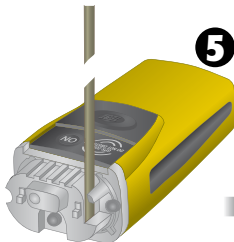
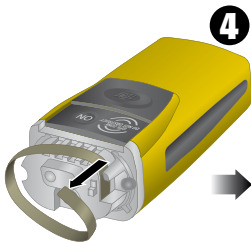
Pulling breaks the plastic anti-tamper seal that can not be reset by the user.

**TIRER UNIQUEMENT EN CAS D'URGENCE**

Le fait de tirer brise un dispositif plastique de sécurité que l'utilisateur ne peut pas réarmer.

**TIRAR SOLAMENTE EN CASO DE EMERGENCIA**

Al tirar se rompe el precinto antimanipulación prohibida de plástico que no puede ser reseteado por el usuario.

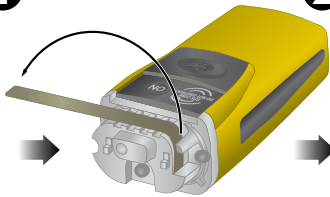


**OFF**

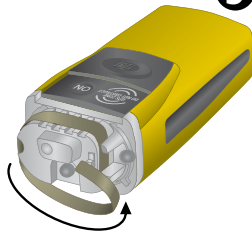
**1**



**2**

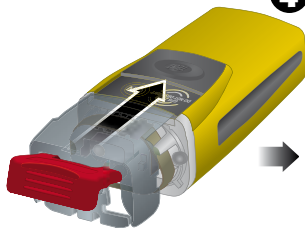


**3**

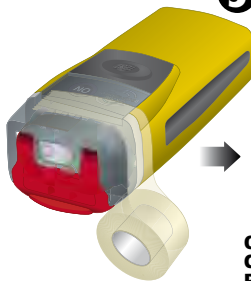


**HOLD  
MAINTENEZ LE DÉCLENCHEUR  
MANTENER**

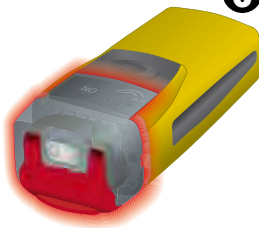
**4**



**5**



**6**



**ORDER NEW CAP  
COMMANDEZ UN NOUVEAU CAPOT  
PIDA UNA NUEVA TAPA**

# 1. Introduction

**The Fast Find 220 Personal Locator Beacon (PLB) gives you the reassurance of a last resort safeguard against any life threatening incidents that may occur anywhere in the world. If you find yourself in a remote area without any other form of emergency communication, on land or at sea, your Fast Find 220 can call for help.**

When triggered, the Fast Find 220 transmits a unique serialised ID to the Cospas-Sarsat satellite system which can pinpoint your location anywhere on the earth's surface. This is typically within 5 minutes, but can be up to 45 minutes depending on satellite coverage. The Rescue Coordination Centre (RCC) then forwards the details of the emergency to the appropriate local Search And Rescue (SAR) services.



Waterproof and fully submersible to 10 metres, the Fast Find 220 features an inbuilt GPS receiver that can pinpoint your location to within a few metres. Dense tree cover or a steep-sided canyon can sometimes make it difficult for the GPS to obtain a position fix. If this is the case, the satellites will still be able to pinpoint your approximate location and the unit's secondary homing transmitter enables SAR teams to home in on your exact location once they are in the vicinity. The unit also features a flashing SOS light which can be used to attract attention.

The lithium power cell offers a minimum 24hr continuous operation and a 6 year battery storage life.

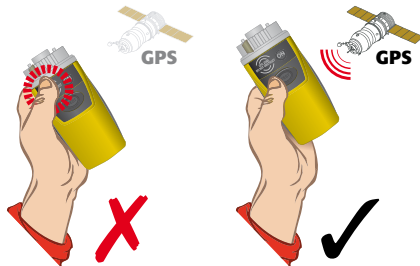
Please take time to read this manual fully before using the Fast Find 220 as it contains important information regarding the correct use and maintenance of the product.

## Safety Notices

It is recommended that the Self Test is performed once a month - unnecessary testing reduces battery life in the event of an emergency. Return the unit to a service centre for battery replacement if battery level is low (single flash in Self Test mode). Confirm that the battery expiry date shown is in date for the duration of intended use.

Transmission of the first emergency alert message occurs 50 seconds after the unit is activated. This allows time for the unit to be switched off before the rescue services are alerted if accidentally activated.

- For optimum transmission, the antenna must be pointing vertically upwards at all times.
- Do not hold the antenna.
- Fit the lanyard through the eye hole in the base of the unit and fasten securely to your clothing.
- The unit will not float without the buoyancy pouch.
- The unit is not designed to float in an upright position or transmit a distress alert when floating in water. Once activated it must always be kept above water, as direct contact with the sea will severely reduce the transmission range.
- Ensure that the area marked "GPS Zone" is not obstructed or covered in any way and always has a clear view of the sky.
- In strong winds, turn the unit so the indicator light faces into the wind.



## Indicator Light

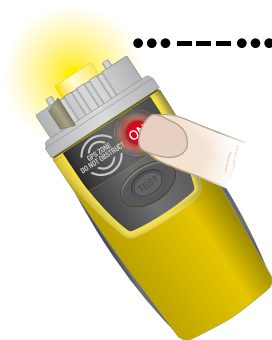
As soon as the PLB is activated, the indicator light will start to flash:

- Two flashes every second indicates the unit is activated and is attempting to acquire a GPS position fix.
- One flash every 3 seconds indicates that a GPS position fix has been acquired.
- A long flash followed by three rapid flashes every 50 seconds indicates that the PLB has transmitted a distress signal along with the current GPS position.



While the PLB is active, pressing the **ON** button again will cause the indicator light to flash a Morse code SOS pattern. This can be used to attract attention in low light conditions. The SOS pattern is repeated four times each time **ON** is pressed.

**NOTE:** To conserve battery life a maximum of 30 presses is allowed, after which this feature is disabled.



## Cautions

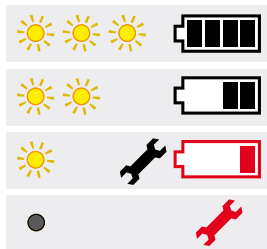
# ACTIVATE ONLY IN AN EMERGENCY

- This PLB should only be used in situations of grave and imminent danger to life.
- False alerts endanger lives and cause expensive disruption to Search & Rescue services.  
**Deliberate misuse of the device could result in a penalty.**
- Spring action antenna. Mount and deploy in such a way as to avoid eye injury.
- Product and battery pack contain no user-serviceable parts. Do not dismantle.
- Contains lithium batteries. Do not incinerate, puncture, deform, short-circuit or recharge.
- Avoid cleaning the unit with chemical solvents as this may damage the case material.
- Radio Licensing. This product is a radio transmitter. Although US and UK owners are not required to hold a radio licence to operate a PLB on land, some administrations may require that the user holds a valid radio license to cover its ownership and use.
- This product emits low levels of radio frequency energy during operation. Avoid handling the antenna once activated.
- The unit will not float if removed from the buoyancy pouch, fit a lanyard restraint when near water to avoid loss.
- The top cap is fitted with an anti-tamper seal which is broken on activation of the unit and must then be replaced. A new cap should then be fitted and the battery condition checked as soon as is practical afterwards (see Self Test section).
- **False alarm:** If the unit has been accidentally activated or you are no longer in danger prior to the arrival of the rescue services, switch off the unit and contact the relevant rescue services as soon as possible.

## Self Test

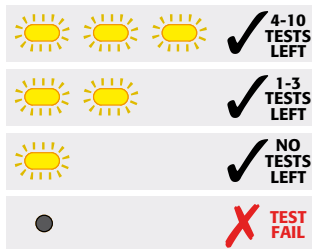
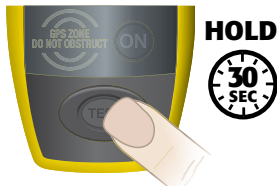
The Self Test verifies all key functions of the PLB including the remaining battery life and transmitter operation.

- The **TEST** button must be pressed hard to activate - if necessary, use a blunt object such as a pencil
- Press and hold the **TEST** button until the indicator light flashes once.
- After a few seconds, there will be a sequence of flashes.
- The PLB will switch off after the test is completed.



## GPS Signal Acquisition Test

- **Start this test indoors, out of view of the open sky.**
- Immediately after completing a Self Test as described above, press and hold the **TEST** button again for 30 seconds - the indicator light will start flashing slowly, indicating that the GPS is searching for a signal.
- Move outside so that the PLB now has a clear view of the sky.
- Ensure GPS Zone on unit is not obstructed.
- Unit will flash slowly until GPS fix is acquired.
- A series of long flashes indicates a successful GPS fix and the number of GPS tests remaining.
- If no GPS fix is acquired after 5 minutes, the test will fail and the indicator light will stop flashing.
- To preserve battery life, a maximum of 10 GPS tests are permitted during each battery's 6 year storage life, after which further GPS tests are prohibited until the battery is replaced.





## Registration Information

Registration of the PLB with the relevant national authority is mandatory. For further information applicable to your region refer to the information on the registration form provided and the annex at the end of this manual.

Some national authorities provide the registered user with a label which must be fitted to the rear of the PLB as proof of registration.

**Failure to register the PLB is illegal and could delay a Search & Rescue response.**

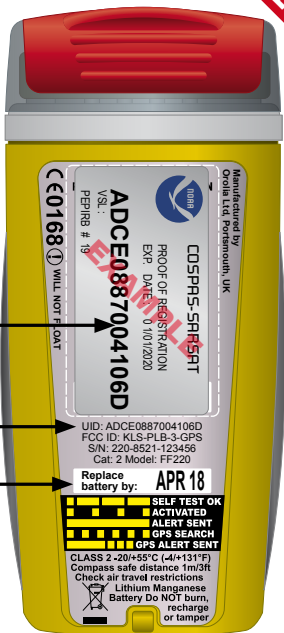
Some national authorities require a completed registration application form to be submitted by letter or fax, others offer an online registration. For more information, visit the emergency beacon registration database IBRD at [www.406registration.com](http://www.406registration.com) and also [www.cospas-sarsat.org](http://www.cospas-sarsat.org). The addresses of the national authorities are listed in the annex at the end of this manual.

**Sale or transfer:** The new owner must file a new user registration. Should the country hosting the user registration also change then the PLB will need to be re-programmed by a service agent.

Fit proof of registration label here

Country & Hex ID

Battery expiry date



## Specification

Standards.....	COSPAS-SARSAT T.001/T.007 class2, RTCM SC110 STD .....11010.2, ETSI EN 302-152-1, AS/NZS 4280.2, NSS-PLB06
Sealing depth .....	Immersion to 10m (30ft) for 5 minutes
Operating temperature .....	-20 to +55°C (-4 to +131°F)
Storage temperature .....	-30 to +70°C (-22 to +158°F)
Altitude .....	12,192m (40,000ft)
Buoyancy.....	Category 2, will not float (keep in buoyancy pouch provided)
Battery type .....	Lithium Manganese
Transmit duration .....	> 35 hours @ +10°C (50°F), > 24 hours @ -20°C (-4°F)
Battery life (storage).....	6 years
Battery replacement.....	Service centre
Battery Use .....	Logged by microprocessor
Frequency .....	406.037MHz (alert) / 121.5MHz (homer)
Power.....	> 5W (alert) / > 50mW (homer) nominal
Unique ID Number.....	Factory or dealer programmed
GPS Type .....	50 channel, ceramic patch antenna
Size (D x W x L) .....	34 x 47 x 106mm (1.34 x 1.85 x 4.17in)
Weight .....	152g (5.36oz)
Indicator Light .....	High brightness LED signal light
SOS flash light.....	Morse code SOS flash pattern, 30 operations
Activation.....	Manual, three stage
Self-test .....	Tests transmitters, battery and light
Standard Compass Safe Distance.....	1m (3ft)

*This PLB will not float unless held in the buoyancy pouch provided. A PLB is not an ELT or an EPIRB and does not meet the regulatory requirements for an ELT or an EPIRB.*

## End of Life Statement

- At the end of its life, the product must be disposed of according to local laws and regulations and it must be disposed of separately from household waste.
- The battery should also be removed to prevent false alerts.
- Do not incinerate, but take it to a recycling facility.



## Transportation

- This product contains small lithium metal batteries.
- **Passenger aircraft:** Product can normally be carried on passenger aircraft in carry-on baggage as a personal item. It is recommended that you declare the device to airline staff at check-in, in the same way you would a laptop PC or video camera.
- **Air cargo:** Not restricted as air cargo under IATA code UN3091-PI970. Always check with carrier for additional restrictions.

## EC Declaration of Conformity

Hereby Orolia Ltd declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1995/5/EC. The Declaration of conformity can be obtained from [www.fastfindplb.com/documents](http://www.fastfindplb.com/documents).

CE 0168!

Orolia Ltd hereby declares that all materials, components and products supplied are in full compliance with RoHS & Weee directives.

Use of this equipment may require a user licence, it may be carried in the following EC countries:

AT	BE	CY	CZ	DK	EE
FI	FR	DE	GR	RO	IE
IT	LV	LT	LU	MT	NL
PL	PT	BG	SK	ES	SE
UK	IS	LI	NO	CH	

EN - FR - ES

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**fast**  
**FIND**



Orolia Ltd  
Silver Point  
Airport Service Road  
Portsmouth PO3 5PB  
United Kingdom

Phone: +44 (0)23 9262 3900  
Fax: +44 (0)23 9262 3998  
Email: [service.fastfindplb@orolia.com](mailto:service.fastfindplb@orolia.com)  
Website: [www.fastfindplb.com](http://www.fastfindplb.com)

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