## 500-32 Series 406MHz Multi Function Personal Locator Beacon





## Multi Function PLB 500-32 Series 406MHz

- COSPAS / SARSAT Class 2
- Beacon only and speech mode variant
- Eurocae ED-62A
- Waterproof to 10 meters (non bouyant)
- Reprogrammable on aircraft
- Low weight and small size
- Simple self-test function
- Retractable, flexible, trailing or life vest antenna options

One of the smallest and lightest PLBs on the market today the 500-32 series is ideally suited for use on both fixed and rotary wing aircraft. In emergency use the PLB activation is simple, either using the manual activate button or more automatically via the lanyard activation. Various antenna options facilitate the PLB's use with Pilot's life vest, life rafts or stowage on commercial aircraft.

The PLBs are fully compliant with the COSPAS-SARSAT 406MHz satellite system, featuring embedded GPS for enhanced location accuracy. The 121.5MHz enables SAR homing/DF and duplex speech when the SAR aircraft is in visual range. The unit is rugged with a 10 year life; the only maintenance being battery replacement every 5 years. Operator programming or reprogramming can be provided via an optional programming kit.

# Specification

### Modulation (121.5MHz)

Continuous Swept Tone at least 700Hz within Sweep Range. Sweep Range 1.6KHz to 300Hz (i.e. downwards)

Sweep Rate 2-3Hz

Amplitude Modulated with Rectangular Wave Modulation Depth - 67% minimum (80% typical)

Speech ITU A3E

## **Modulation (406MHz)**

0.5 Secs 5W pulse every 50 secs Phase modulation of  $\pm \frac{\pi}{3}$  rad (peak)

Digital modulation (see C/G G.005 lss. 2 Rev 1, Section 3) to include:

■ Bit Synchronisation

Frame Synchronisation

Protected Field

Emergency-Code/National Use Field

82mW

Long Message

Hot Start (avg) <9 sec Sat. Signal Reacquisition Time 100ms ■ Warm Start (avg) <35 sec Number of Channels 12 Cold Start (avg) Min Signal Level Tracked -172dBw <39 sec

Receiver L1 C/A Code Power Consumption Protocols

**NMEA** 

### **Power Output**

406MHz  $5W (+37dBm \pm 2dBm)$ >24 hours 121.5MHz >48 hours 100mW (+20dBm)

Activation Manual or Lanyard

Dimensions 132mm x 72mm x 34mm nominal

Weight <450 g nominal Colour Yellow

The unit is designed to survive for up to ten years with the only maintenance being battery replacement every five years.

The PLB is compliant with the following specifications: Civil EUROCAE ED62A / RTCA DO-204A

RTCA DO-160C / COSPAS/SARSAT.

Cospas/Sarsat approval 111