

# 500-32 Series Survival ELT



# 500-32 Series Survival ELT

- Certified to RTCA DO-227A
- COSPAS-SARSAT Class 2
- Two-way Speech (optional)
- Waterproof to 10 meters (non buoyant)
- Reprogrammable on aircraft
- Low weight and small size
- Simple self-test function
- Antenna options available
- Mounting Bracket for aircraft installation

One of the smallest and lightest survival ELTs on the market today, the 500-32 series is ideally suited for use on both fixed and rotary wing aircraft. In emergency use the beacon activation is simple, either using the manual activate button or automatically via lanyard activation. Various antenna options facilitate the beacons use with pilot life vests, life rafts or stowage on commercial aircraft.

The beacons 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 optional 2-way speech when the SAR aircraft is in visual range.

The unit is rugged with a 20 year life; the only maintenance being battery replacement every 7 years. Certified to the FAA/EASA Special Conditions and RTCA DO-227A for use of lithium batteries on aircraft.

Operator programming or re-programming can be provided via the programming kit.

## Specification

### Modulation (121.5MHz)

Continuous Swept Tone at least 700Hz within Sweep Range (ITU A3X).

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 (ITU G1D)

Phase modulation of  $\pm \pi/3$  rad (peak)

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

- Bit Synchronisation
- Frame Synchronisation
- Protected Field
- Emergency-Code/National Use Field
- Long Message

### GPS Receiver (Embedded)

- Sat. Signal Reacquisition Time 100ms
- Number of Channels 12
- Cold Start (avg) <39 sec
- Receiver L1 C/A Code

### Power Output

406MHz >24 hours 5W (+37dBm  $\pm$ 2dB)

121.5MHz >48 hours 100mW (+20dBm  $\pm$ 3dB)

### Mechanical

Activation Manual, Lanyard (only on 500-32-2Y-H and 500-32-2Y-HF)

Dimensions 160.7mm x 71mm x 50mm nominal

Weight <530g nominal

Colour Yellow

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

### Compliance

The PLB is compliant with the following specifications:

Civil EUROCAE ED62A / RTCA DO-227A  
RTCA DO-160G / COSPAS-SARSAT

### Approvals

Cospas-Sarsat

ETSO C 126b

ETSO C 142a compliant to DO-227A

### Part Numbers

- 500-32-2Y-G Beacon without speech
- 500-32-2Y-GF as above with retrieval float
- 500-32-2Y-H Beacon with speech
- 500-32-2Y-HF as above with retrieval float
- A0 2787 Battery pack
- A0 2788-CP Mounting bracket
- A0 2788-CP-E Mounting bracket for float