### 500-32 Series Survival ELT 406MHz





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- Compliant with RTCA DO-227A/TSO-C142b
- **COSPAS-SARSAT Class 2**
- Beacon only and speech mode variant
- Eurocae ED-62A
- Waterproof to 10 meters (non buoyant)
- Reprogrammable on aircraft
- Low weight and small size
- Simple self-test function
- Antenna options available

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 the 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. Designed to meet the FAA Special Conditions and 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). 1.6KHz to 300Hz (i.e. downwards) Sweep Range 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 lss. 2 Rev 1, Section 3) to include:

- Bit Synchronisation
- Protected Field
- Frame Synchronisation Emergency-Code/National Use Field
- Long Message
- Sat. Signal Reacquisition Time 100ms
- Number of Channels
- 12 Cold Start (avg) <39 sec
- L1 C/A Code Receiver

#### **Power Output**

406MHz	>24 hours	5W (+37dBm ±2dB)
121.5MHz	>48 hours	100mW (+20dBm±3dB)

#### **Mechanical**

Manual, Lanyard
160.7mm x 71m
<530g nominal
Yellow

(only on 500-32-2Y-H and 500-32-2Y-HF) m x 50mm nominal

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

The PLB is compliant with the following specifications: Civil EUROCAE ED62A / RTCA DO-227A

### RTCA DO-160G / COSPAS-SARSAT

Cospas-Sarsat approval pending ETSO C-126b Pending ETSO C-142b Pending

#### **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	Mounting bracket
A0 2788-E	Mounting bracket (for beacon with float)

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