

ELT, 500-12Y

Part No: SIG-7042-00

Category: Radios & Beacons

The Series 500-12Y Personal Locator Beacons are simple, compact and lightweight units which can be used either manually or automatically via ejection seat harness. Fully compatible with the majority of search and rescue equipment, including the COSPAS/SARSAT satellite based survivor location equipment.

The PLB is a one-piece unit with the transmitter housed in a yellow pigmented or NATO green molded thermoplastic case, which is designed such that the replaceable battery pack can be mounted within the overall package to form a smooth, but non-slip hand portable device. The design is such that easy replacement of the battery module (15 seconds) is possible during beacon operation. Full speech capability on 121.5 and 243 MHz together with an audible tone indicating live beacon transmissions. The unit is designed to survive for up to ten years with the only maintenance being battery replacement every five years. The antenna (supplied) is capable of being attached directly to the PLB or remote through a cable assembly for operation in a dinghy.



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Features:

- Simultaneous Transmissions
- Beacon and Speech Modes and COSPAS/SARSAT coverage
- Unique remotely programmable country code function for 406.025 MHz
- Manual or automatic operation
- Meets NATO STANAG 7007 latest issue. EUROCAE ED 62 RTCA DO-204, DO-183
- Waterproof to 10 meters
- Reprogrammable on aircraft

Specifications:

TRANSMITTER SIGNAL		
	Frequency	The PLB transmits modulated homing signals on both 121.5 MHz (civil) and 243.0 MHz (military) distress frequencies, with characteristics in accordance with STANAG 700. Together with 406.025 MHz in accordance with COSPAS/SARSAT.
	Channel Spacing	Transmissions and reception on both frequencies are compatible with 25KHz channel spacing
MODULATION (121.5 & 243 MHz)		Continuous Swept Tone of at least 700 MHz within the Sweep Range. Amplitude Modulated with Rectangular Wave.
	Sweep Range	1.6 KHz to 300 KHz (i.e. downwards)
	Sweep Rate	2-3 Hz
	Modulation Depth	67% minimum (80% typical)
		<ul style="list-style-type: none"> • 0.5 seconds 5W pulse every 50 seconds • Phase modulation of +/- rad (peak)

MODULATION (406 MHz)		<ul style="list-style-type: none"> • Digital modulation to include (see C/S G.005 Iss. Rev 1, Section 3) • Bit Synchronization • Frame Synchronization • Protected Field • Emergency-Code/National Use Field • Long Message (optional)
POWER OUTAGE		
	121.5 & 243 MHz	48 hrs min, 100mW (+20dBm) on both frequencies at -20° C
	406 MHz	24 hrs min, 5W (+37dBm +/-2dBm) at -20° C
SPECS		
	Activation	Manual or Automatic
	Dimensions	150mm x 87.5mm x 37.5mm
	Weight	610 gm nominal
	Color	NATO Green or Reflective Yellow
COMPLIANCE		The PLB is compliant with the following specifications
	Civil	EUROCAE ED62 / RTCA DO-204 / RTCA DO-183 EUROCAE ED14C / RTCA CO-160C COSPAS / SARSAT
	Military	NATO - STANAG 7007 latest issue Personal Locator Beacon
	Approvals	Full FAA and JAA Approvals in accordance with TSO C91a and C126, JTSO-2C91a and 2C126 COSPAS / SARSAT Approval 111, CAA Approval NO. WR1029