

503 Series Emergency Locator Transmitter



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Fully Approved TSO C91a & C-126 COSPAS / SARSAT Approval 97

- Extended frequency coverage
- Full remote operation
- Fixed and rotary wing operation
- Multi-axis G switch for full aircraft compatibility
- Solid state G switch operation eliminates false/rogue operation
- Fixed/portable options
- Easy aircraft removal for man portable Personal Locator Beacon use
- Modular construction
- GPS option

The need to accurately pin-point downed aircraft through the use of an Emergency Locator Transmitter (ELT) has always existed. The increasing use of both COSPAS/SARSAT and Global Positioning System (GPS) has highlighted the need for an ELT System with expanded range capabilities.

The Techtest 503 ELT System offers just that; full frequency coverage including 121.5MHz, 243MHz and 406.025MHz. The optional inclusion of last known GPS co-ordinates can be input directly into the system or there is the ability to have embedded stand-alone GPS within the G Switch unit.

Housed within high quality durable thermoplastic, the ELT units are through coloured yellow thermoplastic for high visibility.

Unique features of the 503 Series of ELT are the ability to have full remote extended range operation, incorporating a multi-axis G Switch, together with both fixed or portable ELT function in one unit.

Portable operation allows for fast, snap release of the housing, with simple removal of the transmitter unit for use as a man portable Personal Locator beacon should this be required.

Specification

Transmitter Signal

Frequency	121.5MHz / 243.0MHz / 406.025 MHz
Peak Effective Radiated Power	0.1W at 121.5 / 243.0MHz 5.0W at 406.025MHz
Frequency Stability	2 x 10 ⁻⁹ per min
Transmission Duration	24Hrs min, 5W PERP at -40° C 48Hrs min, 0.1W PERP at -40° C
Repetition Rate	520ms (±1%) every 50 secs (±5%)

Activation

Manual	The 503 Series of ELT's can be manually operated via the cockpit mounted remote switching panel.
Automatic	The ELT can be reliably activated by the multi-axis G Switch.

Dimensions	255 x 105 x 45mm
Weight	1.3kg
Battery Storage Life	6 years

Approvals

TSO C91a and C126
CAA WR01029
COSPAS/SARSAT Approval No. 97

Compliance

The 503 series of ELT's are compliant with the following specifications:
COSPAS/SARSAT specification C/ST.001
EUROCAE ED-62 / RTCA DO-204
EUROCAE ED-14C / RTCA DO-160C
CAP 208 Aircraft Radio Equipment Issue 2
January 1991 Volume 1, Part 1

Product Range

Part Number	
503-1	Transmitter Only
503-4	Remote Controller
503-7	Multi-axis G Switch Module
503-17	Remote Controller with back lighting
503-19	Multi-axis G Switch Module for helicopter mounting
503-20	Remote Controller with NVG lighting
503-35	Multi-axis G Switch Module with embedded GPS
503-36	Multi-axis G Switch Module with embedded GPS for helicopter mounting

Accessories

Part Number	
10-102-19	ELT Rigid Whip Antenna - Aircraft Mounted
10-102-33	ELT Rigid Whip Antenna - Aircraft Mounted
10-118-28	ELT Blade Antenna - Aircraft Mounted
10-118-35	ELT/GPS Blade Antenna - Aircraft Mounted
10-274-1	ELT Flexible Whip Antenna - Transmitter Mounted
A0637	Mounting Tray - Portable Installation
A0637-1	Mounting Tray - Fixed Installation