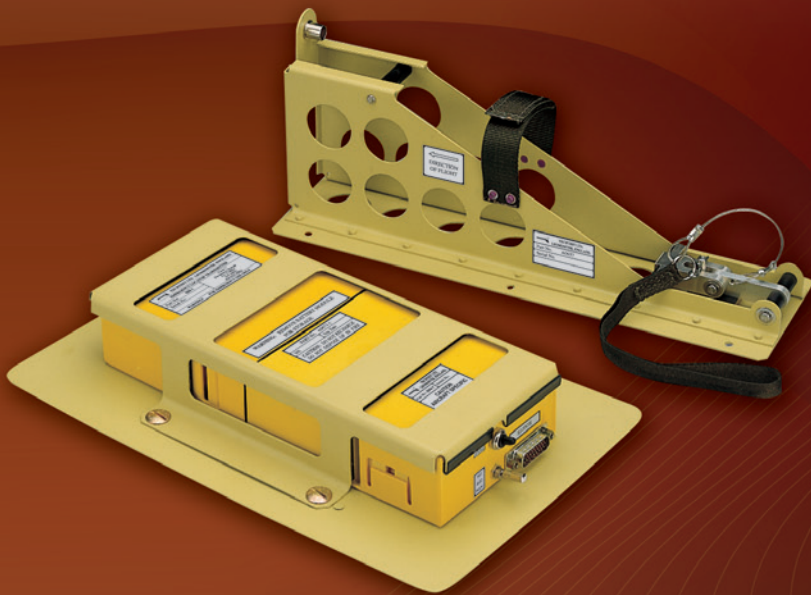


# 503 Series Emergency Locator Transmitter



# 503 Series Emergency Locator Transmitter

## 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<br>5.0W at 406.025MHz                 |
| Frequency Stability           | 2 x 10 <sup>-9</sup> per min                                   |
| Transmission Duration         | 24Hrs min, 5W PERP at -40° C<br>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              |