

HR Smith
Group of
Companies

Street Court
Kingsland, Leominster
Herefordshire HR6 9QA, England
Telephone: Kingsland (01568) 708 744
TeleFax: (01568) 708 713
E-mail: sales@hr-smith.com

The Future of Emergency Location

503 Series ELT'S



**Techtest
Limited**

Advanced
test and
measuring
equipment



The Future of Emergency Location

503 Series ELT'S

Features

- 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.

General Description

The need to accurately pinpoint 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 Techttest 503 ELT System offers just that; full frequency coverage including 121.5MHz, 243MHz and 406.025MHz with optional inclusion of transmission of last known GPS co-ordinates.

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.

Transmitter Signal

Frequency	121.5 MHz / 243.0 MHz / 406.025 MHz
Peak Effective Radiated Power	0.1W at 121.5 / 243.0 MHz 5.0W at 406.025 MHz
Frequency Stability	2 x 10 ⁻⁹ per min
Transmission Duration	24 hrs min, 5 W PERP at -40°C 48 hrs min, 0.1W PERP at -40°C
Repetition Rate	520 ms (+/-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	255mm x 105mm x 45mm
Weight	1.3 Kg
Battery Storage Life	6 years

Approvals

TSO C91a and C126
CAA WRO1029
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 10.

Product Range

Part Number: 503-1	Transmitter only
Part Number: 503-4	Remote Controller
Part Number: 503-7	Multi-axis G Switch Module
Part Number: 503-12	Transmitter including internal Antenna
Part Number: 503-15	Interface Unit
Part Number: 503-19	Multi-axis G Switch Module for helicopter mounting

For full range please contact Techttest Ltd.

Accessories

Part Number: 10-102-19	ELT Rigid Whip Antenna – Aircraft Mounted
Part Number: 10-118-28	ELT Blade Antenna – Aircraft Mounted
Part Number: 10-274-1	ELT Flexible Whip Antenna – Transmitter Mounted
Part Number: A0637	Mounting Tray – Portable Installation
Part Number: A0637-1	Mounting Tray – Fixed Installation
Part Number: A0638	ELT Fireproof Enclosure