# Automatic Deployable ELT with Memory Module





# **Automatic Deployable ELT** with Memory Module



- System test
- Beacon transmit guarded switch
- Beacon deploy guarded switch
- 'Test' and 'Beacon Deployed' LEDs
- Compatible with Night Vision Goggles (NVG)

"The Techtest 503-16 deployable ELT series combines full Cospas/Sarsat coverage together with transmission of last known GPS co-ordinates to accurately pinpoint downed aircraft."



- System 'Arm' and 'Off' guarded switch
- Multi-Axis programmable G-Switch
- Back-up battery

## The next step in post-crash data recovery.

Previous requirements to locate the Flight Data Recorder in ditched or crashed aircraft were costly and time consuming, not to mention high risk for the recovery teams themselves. The memory module (MM) option, of the 503 series Deployable ELT from Techtest, eliminates this need, by providing a storage system for data from the FDR/CVR, within the deployable beacon. Our unique Recorder Interface Unit (RIU) takes data from the FDR / CVR and relays it to the memory module housed within the deployable beacon.

Once the deployable ELT has been recovered, the data can be downloaded from the memory, used to assess the incident and work to establish cause.



## ecorder Interface Unit

Inputs ARINC 429 / ARINC 717 / ARINC 664 **Discreet Inputs** 

RIPS (Recorder Independent Power Supply) optional

Designed specifically for the offshore market, this device offers three methods of deployment:

- Manual Pilot activation via a cockpit control panel.
- 2 **G Switch** The SIU detects considerable changes in pre-programmed parameters and deploys the beacon. These parameters are dictated by the make and model of each specific aircraft involved.
- Water switch In the case of water ingress, the switch detects this and will deploy the beacon. This is the final trigger for deployment.

This product also contains RIPS to ensure that data continues to be recorded for up to 2 hrs post aircraft power loss, providing vital further insight into the development of an incident. Powered by state of the art capacitors, the easy to install system can be simply maintained, with capacitor replacement set at once every 10yr interval.



- Compressed spring for deployment
- CPI beacon attachment point
- Water activated switch (optional)





## CPI Beacon with Memory Module

- 121.5MHz, (243MHz optional) & 406MHz GPS co-ordinates transmitted via 406MHz
- Class 1 ELT
- FDR and CVR memory module
- Crash Proof

# **Specification**

Frequency Peak Effective **Radiated Power** Frequency Stability

**Transmission Duration** 

121.5MHz/243MHz\*/406.025MHz 75mW at 121.5MHz

5.0W at 406.025MHz 2 x 10<sup>-9</sup> per min

24Hrs min, 5W PERP at -40°C 48Hrs min, 75mW PERP at -40°C

520ms (±1%) every 50 secs (±5%)

## Repetition Rate

CVR audio storage min 2 hours FDR data storage min 25 hours

Manual

Automatic

The 503 Series of CPI can be manually operated via the cockpit control panel The CPI can be reliably activated by the

multi-axis G-Switch or together with the

on-board water activated switch

The 503 Series of CPIs are compliant with the following specifications:

COSPAS/SARSAT specification C/ST.001 EUROCAE ED-62/RTCA DO-204/RTCA DO-183 EUROCAE ED-14C/RTCA DO-160C CAA Specification No16, Issue 2

## Dimensions, Weight and Battery Storage Life

Part No. 503-16-MM **Battery Storage Life** 

Cockpit Control Panel

Part No. 503-22 Series

Beacon Release Unit Part No. 503-21-MM

Part No. 503-57-A Part No. 503-57-B

Part No. 503-24 Series Part No. 503-42 Series

Water Activated Switch Part No. 503-23-2

Part No. 503-41

Aircraft Ident Config. Unit

Part No. 503-40

305mm x 92mm (12 ins x 3.62 ins) 5 years

146.2mm x 38mm x 66mm (5.75ins x 1.5ins x 2.6ins)

140mm x 70mm x 67mm (5.5ins x 2.76ins x 2.64ins)

187mm x 165mm x 68.9mm 187mm x 165mm x 100mm

217mm x 120mm x 82mm (8.5ins x 4.7ins x 3.2ins)

140mm x 59mm x 31mm (5.5ins x 2.6ins x 1.2ins)

140mm x 55mm x 89mm (5.5ins x 2.17ins x 3.5ins)

150mm x 66mm x 40mm (5.9ins x 2.6ins x 1.57ins)

TSO C91a, JTSO-2C91a, TSO C126 and JTSO-2C126 CAA WR01029

COSPAS/SARSAT Approval 244

TCCA

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