

DK-406-AF

Emergency Locator Transmitter (ELT) with GNSS Receiver



Meeting the Next Generation Performance Specifications and Battery Safety Requirements

Dukane Seacom's new *AeroELT*, the DK-406-AF, is a state-of-the-art, integrated ELT solution that was designed and tested to meet the current and future requirements for ELTs worldwide. With a focus on high reliability, the DK-406-AF provides improvements in automatic triggering, meets or exceeds requirements for containment of thermal runaway, and is packaged in a rugged aluminum housing using high quality military grade connectors and switches for improved performance. The key features of the DK-406-AF include:

Safety – The DK-406-AF is capable of safely containing a thermal runaway event of the internal lithium battery in compliance with DO-227A, ensuring a smooth path to certification.

Reliability – The DK-406-AF flame-resistant design includes an aluminum housing and fire shielded transmit cable that improves performance in case of extreme heat or fire. The direct mounted housing ensures crash safety and accurate triggering just as the robust system interconnects improve equipment durability.

Accuracy – Multi-axis MEMS device used to automatically detect impact improving trigger reliability over traditional "G-Switch" triggers. A self-contained GNSS receiver further enhances the ability of search and rescue to quickly locate an aircraft in distress with worldwide coverage.

For Fixed-Wing Aircraft & Rotorcraft



KEY FEATURES

- > Meets DO-227A requirements for thermal runaway containment
- > Uses one single-cell battery
- > TSO-C126b authorized
- > Independent GNSS locating device
- > Ultra-reliable MEMS crash sensor
- > Installation flexibility with configurable trigger axis
- > Single antenna solution with ELT + GNSS capability
- > Military grade mechanical design and system interconnects
- > Configurable homing transmissions
- > Robust aluminum housing contains thermal runaway event
- > Fire-shielded transmit cable

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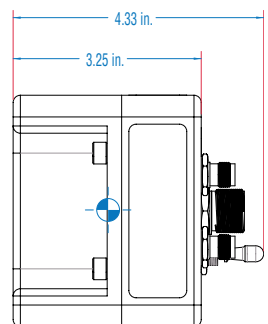
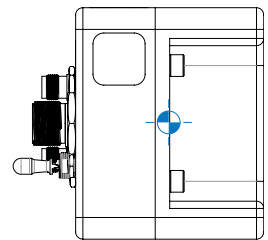
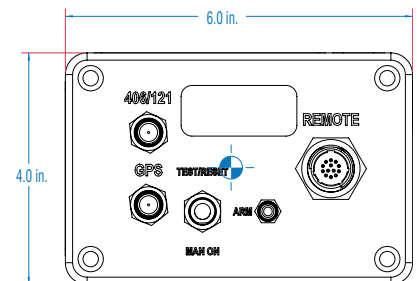
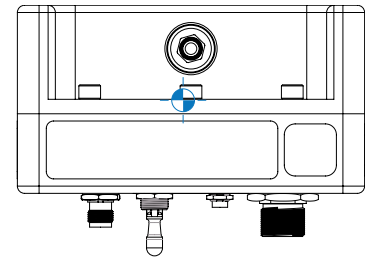
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SPECIFICATIONS

Operating Frequencies	406.040 MHz (± 1 kHz) 121.5 MHz ($\pm 0.005\%$) Optional 243 MHz ($\pm 0.005\%$)
Output Power	406 MHz 5W (37 dBm) for 24 hours 121.5 MHz 50 to 100 mW for 50 hours Optional 243 MHz 50 to 100 mW for 50 hours
Operating Life	Five-year battery Distress signal transmission for 24 hours after activation Homing signal transmission for 50 hours after activation
Connectors	TNC connector for 406/121/243 transmit antenna TNC connector for GNSS antenna Military-style interface connector for remote control
Temperature	Operational from -20°C to $+55^{\circ}\text{C}$ Storage from -55°C to $+85^{\circ}\text{C}$
Automatic Activation	Activation by 4.5 ft./sec in the direction of flight axis Crash sensing performed through use of an accelerometer
GNSS Location	Self-contained GNSS receiver Global position encoded into 406 MHz transmission
Remote Control	LED status and transmit indication, optional audio alert Manual activation / Self-test / Reset switch
Weight	3.6 lb.
Antenna	Standard antenna Blade style, 406/121/243 + GNSS Optional antenna Rod style, 406/121/243
Self-Test Verification	406 MHz transmit power Antenna connection Low battery indication
Antenna Cables	High grade, fire-shielded TNC-to-TNC cables
Certifications & Qualifications	TSO-C126b — 406 MHz Emergency Locator Transmitter (ELT) TSO-C142a — Non-rechargeable lithium cells and batteries FAA special conditions for primary lithium batteries compliant DO-204A/ED62a DO-178C, Level D COSPAS/SARSAT T.001/T.007 compliant



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