

DK-406-AFM

Emergency Locator Transmitter (ELT) with GNSS Receiver



Safety | Reliability | Performance

Dukane Seacom's new AeroELT, the DK-406-AFM, 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 in harsh environments, the DK-406-AFM 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-AFM include:

Safety – The DK-406-AFM 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-AFM 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.

Performance – A multi-axis configurable MEMS device is used to automatically detect impact improving trigger reliability over traditional “G-Switch” triggers. In addition, the MEMS crash sensor can be adapted to special military tactical conditions. 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
- > Military grade mechanical design and system interconnects
- > Robust aluminum housing contains thermal runaway event
- > Fire-shielded transmit cable
- > TSO-C126b authorized
- > Ultra-reliable MEMS crash sensor
- > Designed to meet MIL-STD-461 / 810 / 704
- > Installation flexibility with configurable trigger axis
- > Configurable homing transmissions
- > Uses one single-cell battery
- > Independent GNSS locating device

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DK-406-AFM

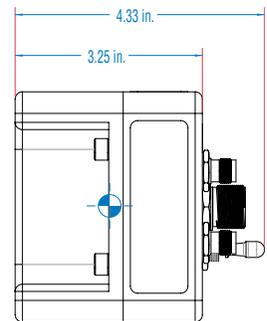
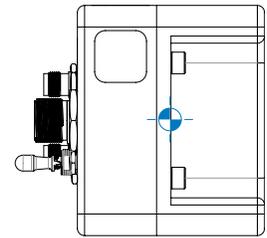
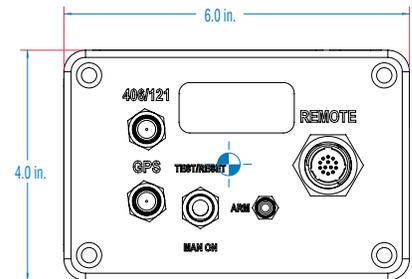
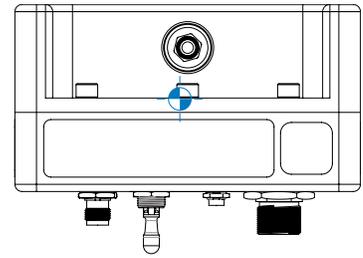
Emergency Locator Transmitter (ELT) with GNSS Receiver

SPECIFICATIONS

Operating Frequencies	406.040 MHz (± 1 kHz) 121.5 MHz ($\pm 0.005\%$) Optional 243 MHz ($\pm 0.005\%$)						
Output Power	<table border="1"> <tr> <td>406 MHz</td> <td>5 W (37 dBm) for 24 hours</td> </tr> <tr> <td>121.5 MHz</td> <td>50–100 mW for 50 hours</td> </tr> <tr> <td>Optional 243 MHz</td> <td>50–100 mW for 50 hours</td> </tr> </table>	406 MHz	5 W (37 dBm) for 24 hours	121.5 MHz	50–100 mW for 50 hours	Optional 243 MHz	50–100 mW for 50 hours
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121.5 MHz	50–100 mW for 50 hours						
Optional 243 MHz	50–100 mW for 50 hours						
Operating Life	Five-year battery Distress signal transmission for 24 h after activation Homing signal transmission for 50 h 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 $+55^{\circ}$ C Short-term operational from -40° C to $+55^{\circ}$ C Storage from -55° C to $+85^{\circ}$ 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 lbs.						
Antenna	<table border="1"> <tr> <td>Standard antenna</td> <td>Blade style, 406/121/243 + GNSS</td> </tr> <tr> <td>Optional antenna</td> <td>Rod style, 406/121/243</td> </tr> </table>	Standard antenna	Blade style, 406/121/243 + GNSS	Optional antenna	Rod style, 406/121/243		
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						

ECCN: 7A994

Cage Code: 94970



7135 16th Street East, Suite 101 | Sarasota, FL 34243

T: 941.739.3200 | F: 941.739.3201

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