



# ELT 3000

## 406 MHz GPS Emergency Locator Transmitter



GPS Enabled via  
ARINC 429 or RS 232



406 Distress Signal

The all new ARTEX ELT 3000 is a transport-grade Emergency Locator Transmitter (ELT) that is truly integrated. The compact form factor is coupled with the integrated NAV interface (ARINC429 or RS232) which omits the requirement and expense of installing a separate NAV interface unit and provides significant reductions in weight and cost.



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## 406 MHz Emergency Locator Transmitter

### How the ARTEX ELT 3000 works

The ARTEX ELT 3000 can be activated manually (via cockpit remote switch) or automatically (the G-Switch senses a 2.3G or greater impact), and alerts the closest Search and Rescue agency of an emergency. The 406 MHz signal, containing the aircraft GPS coordinates, is transmitted to the Cospas-Sarsat satellites and relayed to the Mission Control Center where it is immediately routed to the nearest Search and Rescue agency. The beacon will provide first responders with the exact location to within 100 meters. Finally, the 121.5/243 MHz homing signals assist Search and Rescue ground forces with finding the location of the emergency.

3000 utilizes the same RF output and only one coax cable to transmit both 406 MHz and 121.5/243 MHz signals. The built-in navigation interface reduces the need to mount a secondary external interface, greatly reducing the cost of installation. There are two mounting trays available. One allows for the smallest footprint possible while the other matches legacy ARTEX B and C Series ELT installations, providing further reduction of engineering costs.



### Ease of Installation

The ARTEX ELT 3000 provides a quick-and-easy retrofit opportunity with flexible installation options such as a two or five-wire remote switch that does not require any aircraft power. Because it is a single output ELT, the ELT



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Global Coverage



406 Distress Signal



Local Search & Rescue  
Homing Signal



Encoded Digital  
Message Broadcasts

## SPECIFICATIONS

### Operating Frequencies

406.040 MHz +/- 1 kHz (16K0G1D)  
Depending on Cospas-Sarsat TAC  
121.5 & 243 MHz +/- 5 kHz (3K20A3X)

### Output Power

406 MHz: 5 W +/- 2dB (520 ms/ 50 sec)  
for 24 hours @ -20°C (-4°F)  
121.5/243.0 MHz: 100 mW min (+20 dBm)  
for 50 hours @ -20°C (-4°F)

### Input Power

9 to 32V @25mA max.

### Output Connector

406/243/121.5 MHz (BNC Female)

### Activation

Automatic by 4.5 ft/sec (2.3 G) Primary G-Switch and Manual Activation

### Battery

6-year Lithium LiMnO<sub>2</sub>

### Temperature Certified to:

Operating: -20°C to +55°C (-4°F - 131°F)  
Storage: -55°C to +85°C (-67°F - 185°F)

### Self Test Checks

G-Switch Enabled  
406 MHz Power  
Antenna/Coax Connection  
Low Battery  
GNSS  
NAV System

### GPS Navigational Interface

ARINC 429 (High Speed/Low Speed)  
RS 232

### Remote Control Functions

On/Arm/Test (2 wire and 5 wire connectivity)

### Other Parts

Coax Cable (P/N: 611-6013-04)  
Audio Buzzer (alerts ground crews of inadvertent activations) (P/N: 452-6505)  
2-Wire Remote Switch (P/N: 8304)  
5-Wire Remote Switch (345-6196-04)  
Rod Antenna (110-338)  
Blade Antenna (110-340)  
Blade Antenna (110-341)  
Whip Antenna (110-343)

### Weight

Total Weight: 2.0 lbs (907.2 g)

### Measurements

5.5 (L) x 3.8 (H) x 3.4 (W) inches  
(13.97 x 9.65 x 8.63 cm)



### Comprehensive feature set satisfies the needs of commercial and military aircraft

- The smallest 406 MHz ELT available and lightest transport-grade ELT with ARINC/GPS RS232 interface
- Automatic Fixed Emergency Locator Transmitter
- Tri-Frequency distress beacon, digital 406 MHz and analog 121.5/243 MHz homing signals
- Auto activation via internal G-switch
- Tri-band antenna with single connector and cable to transmitter
- Easy maintenance and installation
- Many cockpit remote switch options available
- Can be connected to onboard GPS via Integrated ARINC429 or RS232 interface
- GPS data is embedded in digital transmission reducing search radius down to 100 meters
- Worldwide Cospas-Sarsat coverage
- 6-year battery life (replaceable)
- Helicopter version with 5-axis G-Switch available
- Compatible with ARTEX 406Test.com Satellite Confirmation Testing System
- Meets both FAA and EASA requirements

### Certifications

- TSO C126B
- TSO C142A
- ETSO C126A
- Cospas-Sarsat (TAC 272)
- Transport & Industry Canada (PENDING)



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