



DISTRESS TRACKING EMERGENCY LOCATOR TRANSMITTER

ELT 5000

The ARTEX ELT 5000 provides the next evolution of ELT Distress Tracking technology to meet new ICAO Global Aeronautical Distress Safety System (GADSS) requirements. ELT 5000 provides both in-flight tracking and post-flight localization in a single crash-resistant unit. When integrated as part of an Autonomous Distress Tracking system (ADT 5000), the configuration fully complies with all the ICAO and EASA GADSS requirements. Harnessing ACR's 35 years of beacon design, ELT 5000 represents the new standard in aircraft tracking combined with traditional ELT functionality.



ELT 5000

DISTRESS TRACKING EMERGENCY LOCATOR TRANSMITTER WITH CRASH SURVIVABILITY

ELT 5000 - Distress Tracking ELT with 406 MHz Distress Alerting

ELT 5000 provides distress-tracking capability (ELT(DT)) with 406 MHz transmission in a crash-survivable package (ELT(DT) cs). Harnessing the proven Cospas-Sarsat infrastructure, ELT 5000 provides an adaptable ELT footprint while adding the inflight tracking capabilities to meet the new ICAO standards for aircraft distress tracking. ELT 5000 delivers first generation ELT capabilities and accomplishes Lithium battery safety via an innovative safety and venting containment system that assures continued airworthiness. GNSS input is provided to the unit via a single-input combined 121.5/406 MHz and GNSS blade antenna.

ELT 5000 takes advantage of operational capability by using aircraft power to preserve battery power during daily use. Future proofing the system, there is a multi constellation GNSS receiver (GPS, Galileo, Glonass and Beidou) that can be configured for future Galileo RLS application or regional consideration as needed. When combined with the ADT 5000 Autonomous Distress Trigger (ADT), the solution provides complete GADSS compliance as per EUROCAE ED-237 and ICAO recommendations.

Adaptable Installation

ELT 5000 can be installed with or without the ADT 5000 trigger. The optional trigger allows for programmable parameter scenarios for a diverse range of aircraft application. Individual LRUs allows the customer to purchase and install only the functions they need. Installation details and recommended interfaces are available upon request.



ELT 5000 Highlights

- Compliance software DO-178C design assurance level C
- Full lithium battery compliance (TSO-C142b)
- Single-input antenna (combined GNSS 121.5 MHz and 406 MHz)
- AS9100 manufacturing facility
- Available ADT 5000 trigger meeting EUROCAE ED-237
- The expertise of the largest 406 MHz beacon manufacturer in the world, in every unit

SPECIFICATIONS

Model: ELT 5000

Operating Frequencies

406.031 MHz (+/- 1kHz) 16K061D
121.5 MHz (+/- 0.005%) 3K20A3X

Output Power

406 MHz: 5W for 24 hours @ -40°C to +70°C (-40°F - 158°F)
121.5 MHz: 100mW for 48 hours @ -40°C to 70°C (-40°F - 158°F)

Mounting Tray

Integrated in Case of unit.

Activation Method

Automatic Primary Crash Sensor or Manual Activation
Autonomous Distress Trigger

Air/Ground Switch IO

Yes

Operational Over Aircraft Power
18-36VDC

Temperature Certified to:

Operating: Class 1, -40°C to +70°C
Storage: -55°C to +85°C

Battery

RTCA DO-227A Compliant
5-year, User replaceable

Antenna Connector

TNC Female

37 Pin Circular Connector

Amphenol BACC63CU15-35PN

Remote Control Panel

ON/ARM/RESET/TEST Switch
LED Indicator for Operations and Self-Test Status

Measurements (LxWxH)

ELT Transmitter with mounting hardware installed:
9.06 x 6.54 x 3.43 Inches
23 x 16.6 x 8.71 cm

Weight

6.2 lbs (2.81 kg)

Operating Life (Battery)

24 hours (406 MHz)
48 hours (121.5 MHz)

Self-Test Checks

- Battery Status
- Transmitter Status
- System Configuration Status
- GNSS Status
- Interface with ADT
- Module Fault
- ARINC Channels
- Fault detection
- Antenna Connection
- Health of Unit
- Crash Sensor

ARINC 429 Interfaces

2X Transmit 2X Receiver

Autonomous Distress Trigger Input

ARINC 680 draft 4 Compliant (Label 201 and Label 202)

Certifications

- FAA TSO-C126c
- FAA-TSO C142b
- Cospas Sarsat T.001
- RTCA DO-204B
- RTCA DO-227A
- Far 21/RBAC21/EASA21
- EUROCAE ED-62B
- Software RTCA DO-178 C

GNSS Protocols

INT: GPS/Galileo/Glonass/SBAS
EXT: ARINC 429

Programming

- Airplane Configuration Module (ACM)
- Remote Function Panel (RFP)

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