



SARBE G2R ELT Evo

Emergency Locator Transmitter

SARBE G2R ELT Evo is designed and manufactured to meet the relevant environmental standards and conditions of MIL-STD-810G. Used on its own or to supplement an existing fixed ELT, SARBE G2R ELT Evo is a flexible & economical survival aid providing an essential lifeline if the unexpected happens.

SARBE: Innovation since 1944

Orolia's SARBE brand has been at the forefront of innovation in life saving Locator Beacons and critical communications for more than 70 years. Its products are in Tri-Force use on every continent.



Key features

- Cospas-Sarsat type approved
- Global satellite alerting on 406 MHz
- Homing transmission 121.5 MHz & 243 MHz
- GNSS for pinpoint location accuracy
- Two way speech facility on 121.5 MHz /243 MHz
- Multi direction 'G' Switch activation
- Built in self test
- Salt-Water activation
- Waterproof to 10 m
- Fast replacement for AOG operations
- Quick change "Twist Fit" battery
- 5 Year battery life (unused)
- Integrated or aircraft mount antennas
- Bracket for convenient stowage

Technical Specifications

Frequencies

406 MHz - Cospas-Sarsat data (beacon identity and GNSS location)
 121.5 MHz & 243 MHz Swept tone distress signal and speech
 225 MHz to 300 MHz (Identity, GNSS location, Time of fix)

Power Output

| | |
|-----------|---------------------------------|
| 406 MHz | 5 watts |
| 121.5 MHz | 200 mW |
| 243 MHz | 400 mW |
| 282 MHz | 500 mW |
| Endurance | > 24 hrs depending on role/ use |

RF Specification

| | |
|----------------------|--------------------------------|
| 406 MHz | IAW Cospas-Sarsat T.O01/T.O07 |
| TX/RX Audio response | 300 Hz - 2500 Hz |
| TX/RX Distortion | Less than 10% @ 85% modulation |
| RX Sensitivity | 4 µV VHF + UHF |
| RX Audio output | 25 mW |
| RX IF selectivity | 6 dB down, @ ±15 KHz |
| TX Modulation | > 85% AM swept tone |
| TX Harmonics | -40 dB Below carrier |

GPS Specification

| | |
|------------------------|---|
| Type | 50 channel LI/CA code |
| Transmission frequency | Transmits GNSS co-ordinates on VHF, UHF and 406 MHz |
| Coordinate systems | Geodetic lat / long WG-S84 |
| Location accuracy | 10 m with SARFind, 100 m SAR role |

Benefits of SARBE G2R ELT Evo

- Cospas-Sarsat approved
- Removable from aircraft after incident
- Two way voice communications with rescuers on 121.5 MHz/243 MHz
- CSAR options for covert operations
- Flexible stowage options
- Liferaft compatible
- Light and compact
- Transfer quickly between aircraft
- Suitable for fixed & rotary wing aircraft

Part Number

Part Number (P/N) 101166-2

Mechanical Specification

| | |
|-----------------------------|---|
| Weight (excluding antennas) | ELT 765 g including battery and Tx Antenna, Bracket 184 g |
| Dimensions (inc. Bracket) | H180 mm x W79 mm x D42 mm |
| Operational temperature | -40 °C to +55 °C |
| Storage temperature | -55 °C to +70 °C |
| Endurance | >24 hrs @-20 °C depending on role/use |
| Battery type | 6 V LiMnO2 - 2 'D' cells |
| Battery life | 5 years |

