

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

SARBE 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

Safran Electronics & Defense is with you every step of the way, building in the intelligence that gives you a critical advantage in observation, decision-making and guidance.

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.007 |
| TX/RX Audio response | 300 Hz - 2500 Hz |
| TX/RX Distortion | Less than 10% @ 85% modulation |
| RX Sensitivity | 4 QV VHF + UHF |
| RX Audio output | 25 mW |
| RX IF selectivity | 6 dB down, @ 315 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 |

Part Number

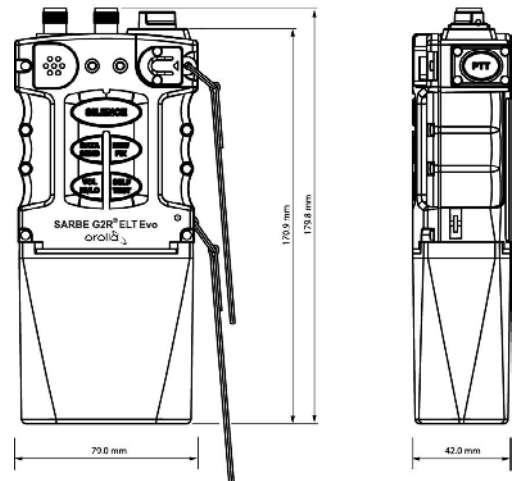
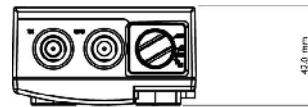
| | |
|-------------------|----------|
| Part Number (P/N) | 101166-2 |
|-------------------|----------|

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 LiMnO ₂ - 2 'D' cells |
| Battery life | 5 years |

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



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