ELECTRONICS & DEFENSE

SARBE EVO

SEARCH AND RESCUE BEACONS

SAFRAN

SARBE Evo: Search and rescue beacons

About us

No matter the application, Safran have the Emergency Locator Beacon you need.
We offer a diverse line of Beacons in form factors that can be modified and ruggedized to meet your application, from Military to Commercial to Rotary.

SARBE Evo Search and Rescue beacons deliver improved operational capabilities to meet current Cospas-Sarsat testability and maintenance requirements.

Rugged and reliable, SARBE Evo beacons are qualified to MIL-STD-810G to support complex military missions in harsh environments.

6 Ways Our SARBE Line Improves Safety

1. Exceeds Cospas-Sarsat endurance requirements

2. Improved testability for more efficient maintenance

3. Flexibility to optimize recovery operations

4. More robust GPS/GNSS position acquisition with GPS, GALILEO and GLONASS satellite constellations

5. Audio system improvements to provide clearer audio and avoid saturation

6. Rugged to MIL-STD-810G standards

Operational Improvements with SARBE Evo

Operating Lifetime

- Improved operating lifetime >24 hours.
- Improved power management to optimize voice communication.
- 406 MHz transmission management to increase 121.5 MHz and 243 MHz transmitting lifetime.

Location

- 50 channel GNSS receiver, providing more robust reception from GPS, GALILEO and GLONASS constellations. This improves time to first fix under varying sky access conditions.
- Location updates **every 5 minutes**.

Voice

- **Automatic attenuation of the received voice signal** keeps clear voice reception when the rescue team is getting close to the beacon.
- The power of transmitted voice signals is digitally controlled and results in a more stable level of audio modulation and enhances the SAR crew´s audio reception.

Protocol

- Cospas-Sarsat National Location Protocol available as part of 406 MHz transmitted messages, and provides flexibility in message content for government organizations.
- User Location Protocol with MMSI (maritime) is now available.

Testability & Maintenance

- **Includes a GNSS self-test**, to test GNSS reception.
- Self-test provides an estimate of remaining battery life via a counter of self-tests and transmission time, meeting the latest Cospas-Sarsat safety requirements.
- Self-test coverage is extended and includes testing of HEXID programming as well as other parameters.
- The user is informed when the battery level allows less than 24 hours transmission, following a self-test.
- At any battery level, SARBE Evo powers off following a self-test.
- Detailed beacon health and status information via IR interface.

Key Elements – Improving Safety

1. Exceeds Cospas-Sarsat endurance requirements.
2. Improved testability for more efficient maintenance.
3. Flexibility to optimize recovery operations.
4. More robust GPS/GNSS position acquisition with GPS, GALILEO and GLONASS satellite constellations.
5. Audio system improvements to provide clearer audio and avoid saturation.
6. Rugged to MIL-STD-810G standards.

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