FEDERAL SYSTEMS

PERSONNEL RECOVERY DEVICE

Personal Locator Beacon

Introduction

Safran Federal System's Personnel Recovery Device is the world's first personal locator beacon built specifically for the US Army that utilizes the Second Generation Cospas-Sarsat signaling technology for the most demanding search and rescue environments. It's a robust, ruggedized, dual mode, user-friendly beacon that has introduced many new innovations in this version of the modern beacon.

With the final design weighing a mere 7 ounces, Safran's Personnel Recovery Device is the smallest, most capable PRD designed to meet Army specific requirements. In particular, the device has been designed to operate continuously over a 36-48 hour period with two user replaceable, general purpose CR123A cells. A state-of-the-art power system design enables the overall device to have an extremely low SWaP profile.

Several other design innovations, such as a wrap-around flexible antenna and single button operation, allow the Beacon to be operated by a single hand even when wearing CBRN gloves. Currently, the Beacon uses a commercial GNSS chipset which can be replaced by SASSM or M-Code capable receivers dependent on customer needs.

Key Attributes

- Portable, Rugged, and Secure
- Simultaneously supports the critical CONOPS as a device of last resort for electronic distress alerting
- Designed to Meet MIL-STD Environmental Conditions
- Provides a simple User Interface
- Field/User replaceable CR-123 batteries
- Dual Mode Capability; Adaptable to Customer Requirements
- Second-Generation 406 MHz Distress Signaling Capability
- Extremely Low-SWaP Form Factor

Safran Federal Systems is the trusted Resilient PNT mission partner to U.S. government and defense organizations, from the lab to the field.

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Technical Specifications

Power Output	406MHz 5W +/- 2 dB (35 to 39 dBm) 360-425 MHz 5W nominal +2dB/-7dB Battery Life >24 hours Operational
RF Specification	406 MHz IAW Cospas-Sarsat documents T.018 and T.021 360-425 MHz Customer specified
GPS Specification	Type 50 channel L1/CA code Coordinate System Geodetic Lat/Long WGS-84
Antenna	Patented low-profile wraparound design, deployable with a single hand
Waveform	LPI/LPD Direct Sequence Spread Spectrum
Dimensions	2” x 1.5” x 4.5”
Weight	<12 oz with batteries
Case Material	PA666 Grilon TS V0 polyamide 66
Activation	Push button (single-handed operation)
Programming	USB interface
Operating Temperature	-20°C to +55.5°C
Storage Temperature	-20°C to +65.5°C
Transportation	Non-Hazardous (without batteries)

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