

AN/SSQ-62G DICASS Sonobuoy

Directional Command Active Sonobuoy



Key features

- Active source
- High power 97-channel RF transmitter
- High-power LiSO₂ power source
- 36 lbs / 16.3 kg
- Field programmable
- CFS commandable
- Air launchable from multiple platforms
- Multiple waveforms

Overview

The AN/SSQ-62G is a seventh-generation, Directional Command Active Sonobuoy System (DICASS) sonobuoy used for detecting and localizing submarines in preparation for attack. This is the recommended DICASS sonobuoy for customers requiring GPS capability. The DICASS is capable of providing both range and bearing to the target for accurate position fixing.

The AN/SSQ-62G utilizes a standard Lithium Sulphur Dioxide battery pack, and has GPS location reporting capabilities following activation to transmit formatted messages.

The sonobuoy transmits the GPS messages RMC, GSV, GGA, and GSA at an update rate of five seconds on a subcarrier centered at 33.5 KHz. The AN/SSQ-62G is air launchable from fixed or rotary-wing aircraft, or it can be deployed from the deck of a surface vessel. The descent of the sonobuoy is stabilized and slowed by a parachute.

Technical Specification

Sonobuoy Characteristics

| | | | |
|------------------------------------|---|----------------|--------------------|
| Weight | 36 lbs / 16.3 kg | | |
| Sonobuoy Launch Container | LAU-126/A | | |
| RF Command Receiver | UHF -- single channel | | |
| RF Transmitter Power Output | 1 W minimum | | |
| RF Transmitter Operating Frequency | 97 channel selectable (136.000 to 173.500 MHz) | | |
| RF Transmitter Stability | +/- 25 kHz | | |
| Sonar Channel | 4 selectable sonar channels | | |
| Operating Life | 100 ping seconds / 4 hour minimum | | |
| Ping-seconds | 100 | | |
| Operating Depth | Selectable | | |
| | D1 (Shallow): | D2 (Deep): | *D3: 800 ft / 244m |
| | 50 ft / 15m | 90 ft / 27m | |
| | 150 ft / 46m | 400 ft / 120m | |
| | 300 ft / 92m | 1500 ft / 460m | |
| EFS Selections | RF, Depth | | |
| CFS Selections | RF, Depth, Sonar Channel, GPS, UHF, Scuttle, D3 | | |
| Launch Altitude | 40 to 30,000 ft / 12 to 9144 meters | | |
| Launch Speed | 0 to 370 KIAS | | |
| Transducer Array | Piezoelectric Ceramic, Omni directional | | |
| Shelf Life | 5 years in sealed container | | |
| NSN | 5845-01-708-9404 | | |
| CAGE Code | 1JGV5 | | |