

AN/SSQ-62F(GPS) DICASS Sonobuoy

Directional command active sonobuoy



Key features

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

Overview

The AN/SSQ-62F(GPS) is a sixth-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 international customers flying P-8A and MH-60R aircraft. The DICASS is capable of providing both range and bearing to the target for accurate position fixing.

The AN/SSQ-62F(GPS) utilizes a standard Lithium Sulphur Dioxide battery pack. The AN/SSQ-62F(GPS) has GPS location reporting capabilities following activation to transmit NMEA 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-62F(GPS) 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 (A: 6.5 kHz, B: 7.5 kHz, C: 8.5 kHz, D: 9.5 kHz)		
Operating Life	100 ping seconds / 4 hour minimum		
Ping-seconds	100		
Operating Depth	Selectable		
	D1 (Shallow):	50 ft / 15m 150 ft / 46m 300 ft / 92m	D2 (Deep): 90 ft / 27m 400 ft / 120m 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	5845-01-664-7345		
CAGE Code	1JGV5		



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