

# AN/SSQ-36B Sonobuoy

## Expendable Bathythermograph

The AN/SSQ-36B is a NATO A-size sonobuoy manufactured for the U.S. Navy which provides vertical temperature profiles of the ocean layer for research and ASW purposes. The AN/SSQ-36B is widely used for airborne Anti-Submarine Warfare (ASW) applications to evaluate local effects of seawater temperature on sonar propagation and acoustic range prediction.

Basic capabilities include a 2625 feet (800 meter) temperature profile and the capability to select one VHF transmitter channel out of 99 available channels. Thermistors located in the probe measures the changes in seawater temperature during descent from the surface. The data can be processed and displayed as Temperature versus depth via RF transmittal to the launch aircraft.

The AN/SSQ-36B Bathythermograph is air launchable from fixed or rotary-wing aircraft. Descent of the sonobuoy is stabilized and slowed by a parachute. It is also easily deployable from the deck of a surface vessel.

This sonobuoy provides an Electronic Function Select (EFS) for use prior to loading and launching. This allows the operator to select the RF channel.

- Sensor
  - *Temperature*
- Depth Profile
  - *0 to 800 Meters*
- EFS Selectable
  - *RF Channel*
- 1/4 Watt 99-channel RF Transmitter



# SPECIFICATIONS

NSN 6655-01-418-5561

## PHYSICAL CHARACTERISTICS

Weight .....7.3 kg (16 lbs)  
 “A” Size ..... 91.44 cm long x 12.4 cm diameter  
 Sonobuoy Launch Container.....LAU-126/A

## PERFORMANCE DATA

RF Transmitter Power Output.....0.25 W minimum  
 RF Transmitter Operating Frequency ..... 99 Channel Selectable  
 (136.000 to 173.500 MHz)  
 Sensor Temperature Range .....0 to 35° C  
 Temperature Accuracy ..... +/- 0.55° C  
 Operating Depth..... 0 to 800 meters  
 (0 to 2625 ft)  
 Probe Descent Rate ..... 1.5 m / sec. (5 ft. / sec.)  
 Operating Life..... 12 Minutes (max)  
 EFS Selections .....RF Channel  
 Scuttle ..... Automatic  
 Launch Altitude..... 12 to 9144 meters (40 to 30000 ft)  
 Launch Speed..... 0 to 370 KIAS  
 Shelf Life ..... 5 years in sealed container