

AN/SSQ-36B EXBT 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. A thermistor located in the probe measures the changes in seawater temperature during descent from the surface to a depth of 2,625 ft. 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 (0 to 2625 ft)*
- EFS Selectable
 - *RF Channel*
- 1/4 Watt 99-channel RF Transmitter



SPECIFICATIONS

NSN 6655-01-475-9479

PHYSICAL CHARACTERISTICS

Weight7.7 kg (17 lbs)
 Sonobuoy Launch Container.....LAU-126/A

PERFORMANCE DATA

RF Transmitter Power Output0.25 W minimum
 RF Transmitter Operating Frequency 99 Channel Selectable
 (136.000 to 173.500 MHz)
 Sensor Temperature Range..... -2.2C to 35°C
 Temperature Accuracy.....± 0.55°C
 Probe Descent Rate.....1.5 m/s (5 ft/s)
 Operating Life12 minutes
 EFS Selection..... 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