

1/2 ATR Software Defined Sonobuoy Receiver (SDSR)

Lightweight receiver designed for rotary-wing aircraft



Key features

- 32 acoustic channels
- Dynamic range of >100 dB
- Supports future sonobuoy formats
- GPS buoy support
- Digital data rates to 320 kbps
- Automatic Identification System (AIS)
- Field programmable / upgradeable

Overview

The 1/2 ATR Software Defined Sonobuoy Receiver (SDSR) system is a highly sensitive ruggedized VHF signal receiver. This receiver system is designed to meet environmental requirements for rotary-wing ASW platforms. The system is capable of receiving any mix of passive and active sonobuoy VHF signals concurrently for up to 32 independently selectable RF channels.

The Flightline SDSR supports all current NATO sonobuoy formats including GPS buoys. Another key feature of the 1/2 ATR sonobuoy receiver is it's lightweight. The receiver system itself weighs approximately 30 lbs while the preamplifier unit only weighs 4 lbs. This proven receiver system is also designed to withstand the harsh weather conditions typically experienced in low-altitude sea-going conditions.

Technical Specification

Ordering Information

6120-0500-001 — 1/2 ATR SDSR



Mission Critical Accessories

Single External Preamplifier (SEP) Part No. 6120-8000-001



Command Function Transmitter (CFT) Part No. 5982-7000-002



Performance

Channels 32 acoustic channels

Dynamic Range >100 dB

12 dB at -113 dBm (25 kHz bandwidth) FM Sensitivity Multiple / Selectable (At time of order) Digital Data Rate

Audio Distortion ≤ 0.2% at 100 Hz

>140 dB out-of-band rejection

Flat within 1 dB (0.5 Hz - 20 kHz) Frequency Response

Antenna Support

Physical Specifications

General Physical Description 1/2 ATR

8.25H x 8.60W x 16.20D (in) Dimensions - Receiver

20.96H x 21.84W x 41.15D (cm)

Dimensions - Preamplifier 8.85H x 10.50W x 2.25D (in)

22.48H x 26.67W x 5.72D (cm)

Weight - Receiver 30 lbs / 13.61 kg Weight - Preamplifier 4 lbs / 1.81 kg **Housing Color** Grey or Custom

Input & Control

115 VAC 400 Hz Power Power Input Ethernet (Primary) - 1 Gbps Control 1553 Data Bus (SPS)

Environmental

Operating Temperature -40°C to 55°C Cooling Requirements Self-cooled (Fan)

Operating Humidity 2% to 95% Non-condensing Vibration MIL-STD-810F Compliant Shock MIL-STD-810F Compliant Safety Standard MIL-STD-810F Compliant



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