

ALFEA SONOBUOY

ACTIVE LOW FREQUENCY ELECTRO-ACOUSTIC SONOBUOY TYPE SSQ 926

Features:

- Commandable active sonobuoy for multistatic use
- 'A' size
- High power
- 1.6 - 2 kHz source
- Programmable waveform types
- 3 depth capability
- Autonomous Function Select
- GPS fitted

The Ultra SSQ 926 ALFEA sonobuoy has been designed specifically for use as a high power, low frequency electro-acoustic source for use in multistatic buoy fields.

In conjunction with HIDAR and Barra passive sonobuoys in a multistatic field, the power and frequency provide exceptional detection and tracking performance, even in difficult water conditions, such as the littorals and shipping lanes.

Safety mechanisms are included to prevent actuation or deployment until the parachute has deployed normally and the buoy has entered the water. These safety features protect operators from inadvertent activation, especially in emergency situations, such as aircraft ditching.

Prior to launch, the buoy is set up using the straightforward and intuitive Autonomous Function Select, which includes 2 buttons and a small display.

Following launch and deployment, it transmits status telemetry that includes GPS data. ALFEA is controlled by commands transmitted from the aircraft over a UHF radio link. The commands include control of a programmable ping library capable of containing both traditional and novel ping types.



Active Low Frequency Electro-Acoustic Sonobuoy Type SSQ 926

Specification ALFEA SSQ 926

Description

Coherent active source for multistatic operations

Dimensions

'A' size

Length:

914mm (36.0in)

Diameter:

123.825mm (4.875in)

Weight:

15.9kg (35.1lb)

Deployment

Platform speed:

50kts to 300kts

Platform altitude:

55m to 3048m

(180ft to 10,000ft)

Operating Depth

AFS programmable

3 selectable depths

Operating Life

AFS programmable

1, 2, 3, 4, 5 and 6 hours.

Automatic or command scuttle.

Acoustic Output

Frequency range:

1600 to 2000 Hz

Programmable waveforms

Modulation

FM Analogue

DIFAR compatible with GPS

Temperature Range

Seawater operating:

-2°C to +35°C

Un-packaged non-operating:

-20°C to +55°C

Packaged:

-50°C to +70°C

Sea State

Operate: Sea State 5

Survive: Sea State 7

Seawater Salinity

1.5% to 3.6% by weight

Storage Life

Packaged: 7 Years

Un-packaged: 90 Days

RF Channel

AFS programmable

Channels 1 to 99

(136 MHz to 173.5 MHz,

375 kHz spacing)

VHF Radiated RF Power

1 Watt nominal



making a difference

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