### UM SONOBUOYS

# Wideband Omni-Directional Passive Surveillance Sonobuoy (LOFAR)

SSQ-906G&H



#### **Key features**

- High performance omni-directional buoy for littoral and deep water operation
- Passive surveillance
- 'G' size
- Wideband acoustic frequency range
- Acoustic monitoring of marine mammals and maritime noise pollution
- Autonomous Function Select
- Coastal surveillance option

#### Overview

The Ultra Maritime SSQ-906G variant Low Frequency Analysis and Recording (LOFAR) sonobuoy combines a high-performance, wide frequency band omni-directional sensor with the proven in-buoy digital electronics of the Ultra Maritime SSQ-955 HIDAR sonobuoy. This combination takes full advantage of digital signal processing to offer a buoy that outputs distortion-free acoustic data across a high dynamic range and with superb linearity across an extended acoustic spectrum.

The SSQ-906H variant is designed primarily for shallow water operations close to the shoreline, or in the fresh water run-off environment of river estuaries. This variant will cope with all salinity conditions from fresh water to 3.6% salinity by weight. Optional GPS telemetry can be included.

The SSQ-906G&H variants offer considerable benefits to maritime patrol aircraft, especially those with limited space and weight available. Its small, lightweight size is ideal for helicopter operations.

## Technical Specification

#### **Sonobuoy Characteristics**

**Description** Wide frequency band omni-directional passive sonobuoy

Dimensions 'G' size Length: 419.1 mm (16.5 in)

**Diameter:** 123.825 mm (4.875 in)

Weight: 5.6 kg (12.3 lbs)

**Deployment** Platform speed: 50 kts to 375 kts

Platform altitude: 46 m to 9200 m

(150 ft to 30,000 ft)

Operating Depth AFS programmable settings:

 SSQ 906G
 30 m
 140 m
 300 m

 SSQ 906H
 15 m
 30 m
 60 m

 Time to full stabilisation
 100 s
 180 s
 240 s

Operating Life AFS programmable 1 to 7 hours in 1 hour increments (Automatic Scuttle)

**RF Channel** AFS Programmable Channels 1 to 99

(136 MHz to 173.5 MHz, 375 kHz spacing)

Telemetry Mode Frequency Modulation Analogue

VHF Radiated RF Power 1 Watt nominal

Acoustic Frequency Range 10 Hz to 20 kHz

FM Deviation Acoustic Sensitivity 116 dB  $\pm$  2 dB re 1  $\mu$ Pa produces

19 kHz peak deviation at 100 Hz

Variants SSQ 906G: High performance, omni-directional

SSQ 906H: Shallow water, low salinity variant

Temperature Range Seawater operating: - 2°C to + 35°C

Un-packaged non-operating: - 20°C to + 55°C

Packaged: - 50°C to + 70°C

Seawater Salinity 1.5% to 3.6% by weight (Optional SSQ 906H) 0.0% to 3.6% by weight

Packaged: 7 Years

Un-packaged: 90 Days



Storage Life

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