

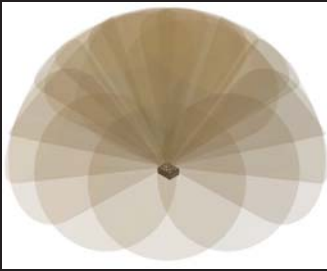


Cygnus Hatch Sure



Ultrasonic Hatch Leak Detector

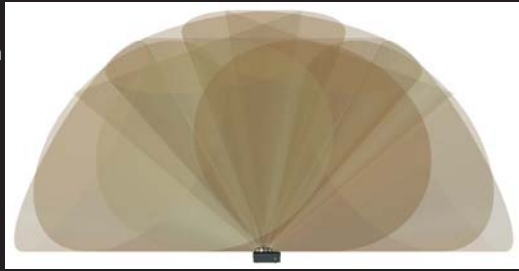
A lightweight ultrasonic system for testing the weather tightness of cargo hatch covers



Transmitter Beam Spread Pattern

<< Oblique View

Side View >>



Features

- Lightweight (3.8 kg) - suitable to be hand-carried onto aircraft
- Digital calibration controls
- Open Hatch (OH) value and sound level in Decibels (dB) are simultaneously displayed
- Powerful and robust transmitter
- Easy transportation in a rucksack-style carry case
- Receiver supplied with neck & waist straps for hands-free use
- Transmitter fitted with shoulder strap for convenience and safety
- Inspections can be carried out with cargo in place
- Allows a rapid & thorough test of hatch cover tightness
- Environmentally friendly - can be used in place of hose testing
- 3 year warranty

Approval

ABS type approved and accepted by P&I clubs

Applications

- Test the weather tightness of cargo hatch covers or doors
- Test seals in cargo access areas, such as bow, side and stern doors or any opening that needs to be sealed

Technology

Sea water ingress is one of the major sources of damage to cargo resulting in expensive insurance claims. Cygnus Hatch Sure provides a quick and effective method of evaluating hatch seals.

The system consists of a battery powered transmitter containing 19 ultrasound emitters (40 kHz). The emitters are arranged to produce an omni-directional sound field, uniformly distributed throughout the cargo hold.

The receiver part of the system displays the sound energy level that passes through gaps in the enclosed cargo hold to enable the location of leaks to be quickly and accurately identified.

Kit Contents

- Hatch Sure receiver with protective case
- 2 rechargeable batteries for the receiver
- Neck and waist strap for the receiver
- Telescopic extension and cable
- 2 flexible inspection microphones
- Neck-band headphones
- Hatch Sure transmitter with protective case
- Shoulder strap for the transmitter
- 2 sets of 6 rechargeable batteries for the transmitter
- Fast charger for the rechargeable batteries
- External DC power lead for the transmitter
- Emergency microphone cable
- Operation manual





Technical Specifications

Hatch Sure Receiver

Size	110 mm x 185 mm x 45 mm (4.4" x 7.3" x 1.8") W x H x D
Weight	500 g (17 oz) including batteries
Power	9v PP3 battery - 2 x MaxE Rechargeable batteries supplied
Battery Life	4 - 5 hrs continuous with MaxE rechargeable battery 8 - 9 hrs continuous with Alkaline battery
Protection	IP65 (IP66 in soft-pouch)
Frequency	40,000 kHz, +/- 200 Hz Bandwidth
Enclosure	ABS plastic with orange shock- absorbing outer boot. Outdoor all weather soft-pouch with waist mounted belt strap.
Temperature Range	Operating - 10 C to + 50 C Storage - 10 C to + 60 C
Warranty	3 Years

Hatch Sure Inspection Microphone

Size	Length 240 mm (9.4 inch) Diameter 15 mm (0.6 inch)
Warranty	1 Year



Inspection Microphone mounted
on Telescopic Extension

Hatch Sure Telescopic Extension

Size	Extended length 1.215 m (4 foot) Collapsed length 0.4 m (16 inch)
Weight	300 g (10 oz)
Warranty	1 Year

Hatch Sure Transmitter

Size	120 mm x 150 mm x 90 mm (4.7" x 5.9" x 3.5") W x H x D
Weight	680 g (24 oz) including batteries
Power	6 x Rechargeable NiMH 2100 mAh supplied with kit (Alternatively 6 x AA Batteries) External 12-24 v DC power input socket (1 amp)
Battery Life	4.5 hrs with 2100 mAh NiMH batteries
Battery Charger	A four cell AA fast-charger is supplied 100 to 240 v AC 50-60 Hz Supply Charge time is approx. 1 hour
Protection	IP40 in soft-pouch with transmitter elements exposed (normal use) IP42 in soft-pouch with cover flat secured (storage)
Transmitter Frequency	40,000 kHz, +/-80 Hz Bandwidth Frequency Modulated
Transmitter Elements	19 x 16 mm diameter 40 kHz ultrasound transmitters
Transmitter Power	130 dB (SPL) min
Enclosure	ABS plastic Padded soft - pouch with protective weather cover and 4 points for attaching rope for lowering into holds
Temperature Range	Operating - 10 C to + 50 C Storage - 10 C to + 60 C
Warranty	3 Years

Compliance - CE, BS EN 60945:2002
(Maritime navigation and radiocommunication equipment and systems
- General requirements - Methods of testing and required test results)

Environmental - RoHS, WEEE compliant

Specifications are subject to change for product improvements



Cygnus Thickness Gauges

General Purpose

Hands Free

ROV Mountable

For Cygnus thickness gauges, please visit www.cygnus-instruments.com



Datalogger

Intrinsically Safe

Underwater



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