CYGNUS
INSTRUMENTS

RELIABLE ULTRASONIC MEASUREMENT





CYGNUS HATCH SURE

ULTRASONIC HATCH LEAK DETECTOR

MADE IN BRITAIN

Cygnus Hatch Sure is an ultrasonic hatch leak detector able to perform a quick and effective evaluation of cargo hold hatch covers and door seals to determine water leaks and weather tightness. Hatch Sure is ABS type approved and accepted by P&I clubs.

IDEAL FOR USE IN

- CARGO HATCH COVERS
- WATER TIGHT DOORS
- HOLD ACCESS COVERS
- YACHT & BOAT HATCHES
- WATER TIGHT SEALS

...seals in cargo access areas, such as bow, side and stern doors or any opening that needs to be sealed, and confined spaces.



LOCATE LEAKAGE IN HATCH COVERS OR DOORS WITH PINPOINT ACCURACY

Purpose-built for weather tightness testing of cargo hatch covers, the Cygnus Hatch Sure ultrasonic leak detector can identify the exact location of leakage accurately and swiftly. And what's more, the transmitter features adjustable power to suit different sizes of areas, such as small cabins, bulkhead doors on marine vessels or watertight doors on offshore oil & gas platforms.



CYGNUS HATCH SURE KEY FEATURES



- **Allows a rapid and thorough test of hatch cover tightness**
- **Environmentally friendly - can be used in place of hose testing**
- **Inspections can be carried out with cargo in place**
- Lightweight 3.8 kg (8 lbs) - suitable to be hand-carried onto aircraft
- Digital calibration controls
- The transmitter has 6 selectable pre-set power levels enabling the unit to be used in confined spaces
- Open Hatch (OH) value and sound level in Decibels (dB) are simultaneously displayed
- Easy transportation in a rucksack-style carry case
- Receiver supplied with neck and waist straps for hands-free use
- Transmitter supplied with a sling & 4 anchor points allowing it to be suspended in cargo hold



POWERFUL AND ROBUST TRANSMITTER



ADJUSTS FOR USE IN CONFINED SPACES



NECK/WRIST STRAP FOR HANDS FREE USE



DISPLAYS OH VALUE AND DECIBELS

GO TO PRODUCT PAGE

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.

CYGNUS HATCH SURE RECEIVER SPECIFICATION

Feature	Description
Size	110 x 185 x 45 mm (4.4 x 7.3 x 1.8 inch)
Weight	500g (17 oz) (inc. batteries)
Power	9v PP3 battery - 2 x MaxE Rechargeable batteries supplied
Battery Life	4 - 5 hours continuous with MaxE rechargeable batteries. 8-9 hours with Alkaline batteries
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 mounted belt strap
Temperature Range	Operating: -20°C to 50°C (-4F to 122F). Storage: -10°C to 60°C (14F to 140F)
Warranty	3 years

CYGNUS HATCH SURE INSPECTION MICROPHONE SPECIFICATION

Feature	Description
Size	240 x 12 x 15 mm (9.4 x 0.47 x 0.6 inch) (with rubber sleeve fitted)
Warranty	6 months
Quantity	2 x flexible inspection microphones supplied

CYGNUS HATCH SURE TELESCOPIC EXTENSION SPECIFICATION

Feature	Description
Size	Extended length: 1.215 m (4 ft). Collapsed length: 0.4 m (16 inch)
Weight	300g (10 oz)
Warranty	1 year

CYGNUS HATCH SURE TRANSMITTER SPECIFICATION

Feature	Description
Size	120 x 150 x 90mm (4.7 x 5.9 x 3.5 in.)
Weight	680 g (24 oz) (inc. batteries)
Power	12 x rechargeable MaxE 2100 mAh supplied with kit (alternatively 6 x AA batteries). External 12-24 v DC power input socket (1 amp)
Battery Life	4 hours with 2100 mAh MaxE batteries
Battery Charger	A 6 cell charger is supplied. 100 - 240 v AC 50-60 Hz supply. Charge time approx. 3 hours
Protection	IP40 in soft-pouch with emitters exposed (normal use). IP42 in soft-pouch with cover flat secured (storage).
Frequency	40.000 KHz, +/- 80 Hz Bandwidth Frequency modulated
Elements	19 x 16 mm (0.63 inch) diameter 40 KHz ultrasound emitters
Max. Power	130 dB (SPL)
Output	6 selectable pre-set power levels - full power. 5 selectable lower outputs in 11dB steps
Enclosure	ABS plastic. Padded soft-pouch with protective weather cover and 4 points for attaching rope for lowering into holds
Temperature Range	Operating: -20°C to 50°C (-4 F to 122 F) Storage: -10°C to 60°C (14 F to 140 F)
Compliance	CE, BS EN 60945:2002. (Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results)
Environment	CE, UKCA, RoHS
Warranty	3 years

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All information provided is subject to change without prior notice.

CYGNUS INSTRUMENTS

Cygnus Instruments Ltd.
Cygnus House
30 Prince of Wales Road
Dorchester
Dorset DT1 1PW
United Kingdom

ISO 9001 Certified
Ex Veritas

Cygnus Headquarters

Call +44 (0) 1305 265 533
Email sales@cygnus-instruments.com
Visit cygnus-instruments.com

Cygnus USA

Call +1 (410) 267 9771
Email sales@cygnus-instruments.com
Visit us.cygnus-instruments.com

Cygnus UAE

Call +971 50 3459305
Email ribu@cygnus-instruments.com
Visit cygnus-instruments.com

Cygnus Singapore

Call +65 6252 5909
Email sales@cygnus-instruments.sg
Visit sg.cygnus-instruments.com