



# CYGNUS HATCH SURE

ULTRASONIC HATCH LEAK  
DETECTOR



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.



## 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



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**POWERFUL**  
AND ROBUST  
TRANSMITTER



**ADJUSTS**  
FOR USE IN  
CONFINED  
SPACES



**NECK/WRIST  
STRAP FOR**  
HANDS FREE  
USE



**DISPLAYS OH  
VALUE AND**  
DECIBELS

## LOCATE LEAKAGE IN HATCH COVERS OR DOORS WITH PINPOINT ACCURACY

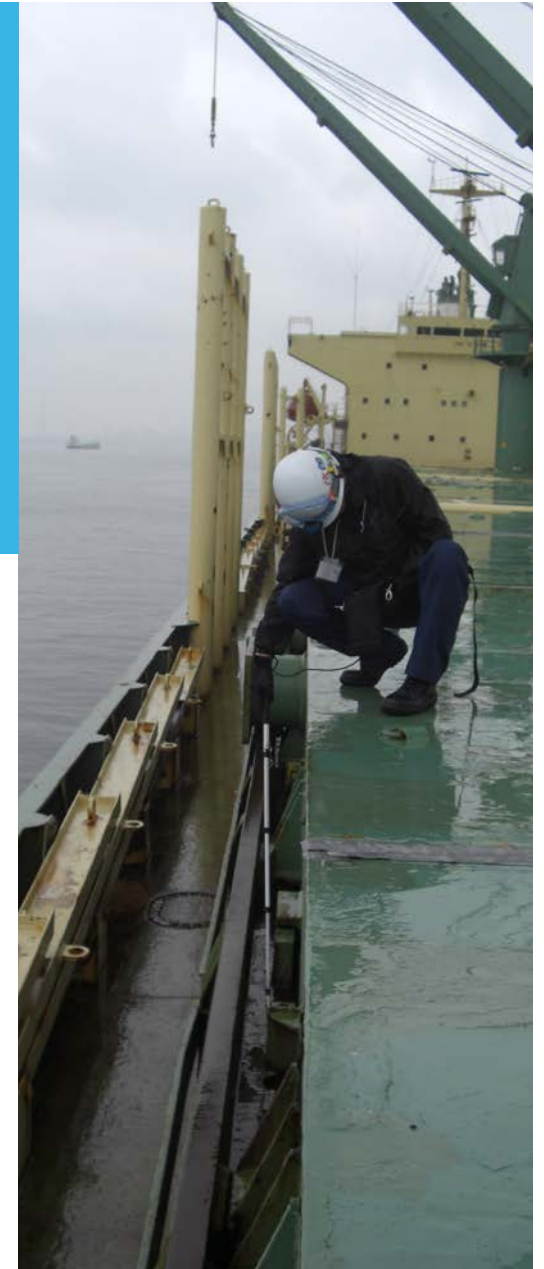
Purpose-built for weather tightness testing of cargo hatch covers, the Cygnus Hatch Sure ultrasonic leak detector can identify the exact location of leakage accurately and swiftly. And what's more, the transmitter features adjustable power to suit different sizes of areas, such as small cabins, bulkhead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

### 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                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Size</b>              | 110 x 185 x 45 mm (4.4 x 7.3 x 1.8 inch)                                                                      |
| <b>Weight</b>            | 500g (17 oz) (inc. batteries)                                                                                 |
| <b>Power</b>             | 9v PP3 battery - 2 x MaxE Rechargeable batteries supplied                                                     |
| <b>Battery Life</b>      | 4 - 5 hours continuous with MaxE rechargeable batteries.<br>8-9 hours with Alkaline batteries                 |
| <b>Protection</b>        | IP65 (IP66 in soft-pouch)                                                                                     |
| <b>Frequency</b>         | 40.000 KHz, +/- 200 Hz Bandwidth                                                                              |
| <b>Enclosure</b>         | ABS plastic with orange shock-absorbing outer boot.<br>Outdoor all weather soft-pouch with mounted belt strap |
| <b>Temperature Range</b> | Operating: -20°C to 50°C (-4F to 122F). Storage: -10°C to 60°C (14F to 140F)                                  |
| <b>Warranty</b>          | 3 years                                                                                                       |

## CYGNUS HATCH SURE INSPECTION MICROPHONE SPECIFICATION

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

## CYGNUS HATCH SURE TELESCOPIC EXTENSION SPECIFICATION

| Feature         | Description                                                           |
|-----------------|-----------------------------------------------------------------------|
| <b>Size</b>     | Extended length: 1.215 m (4 ft).<br>Collapsed length: 0.4 m (16 inch) |
| <b>Weight</b>   | 300g (10 oz)                                                          |
| <b>Warranty</b> | 1 year                                                                |

## CYGNUS HATCH SURE TRANSMITTER SPECIFICATION

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

ISS4 03/21

All information provided is subject to change without prior notice.



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