

HATCHTITE™

Hatch Cover Tightness Testing Device

HATCHTITE™ is a robust and versatile instrument for the reliable testing of water tightness of cargo hatch covers to prevent cargo damage. Unlike hose and chalk tests, which only demonstrate whether or not there is contact between the rubber packing and compression bar, HATCHTITE™ indicates when you actually have the required compression to prevent water getting into the hold space.

HATCHTITE™ uses a transmitter placed inside the cargo hold (empty or with cargo) emitting ultrasound waves. With the hatch covers closed, a hand held telescopic microphone is used at the hatch cover interfaces. The system is fully compliant with IACS Unified Requirement U.R.Z17 and approved by insurers.

- Pin-points small leaks and areas that lack compression
- Lightweight and portable
- Simple to use, accurate and reliable
- Can be carried without interfering with ship operations
- No need for water to determine leaks
- Full ABS Type approval



HATCHTITE™

Specifications

The principal of operation for ultrasonic cargo hatch tightness testing is remarkably simple. An ultrasonic transmitter is placed in the hold (empty or with cargo) and emits ultrasonic waves. The hatch cover is then closed, fully cleated and battened. The surveyor or operator then uses the HATCHTITE™ ultrasonic detector to 'listen' from the outside and pick up all 'leaking' ultrasonic sounds that pass through the sealing arrangements, vents and/or cracks.

The effectiveness of a hatch cover tester is determined by the amount of sound energy that reaches the hatch cover, which is in turn determined by a combination of the primary dispersion pattern from the emitter and the secondary reflection pattern. HATCHTITE™ is the most effective tester on the market due to its high power and the unique design of the transmitter and pattern of emitters.

Transmitter

Dimensions	• 190 (L) x 100 (W) x 60 (D) mm max
Weight	• 200g
Case Material	• Impact resistant ABS with leather pouch
IP Rating	• IP66
Indicators	• 3No. Green LEDs – correct operation • 3No. Red LEDs – low battery indicator
Output	• 157dB @ 40KHz
Emitters	• 13 individual emitters
Power	• 6No. AA 1.5V Alkaline batteries • Input for 9 to 24V DC
User controls	• ON/OFF switch
Battery Life	• 4-6 hours

Receiver

Dimensions	• 160 (L) x 95 (W) x 38 (D) mm
Weight	• 225g
Case	• Impact resistant ABS with leather pouch
IP Rating	• IP66
User Controls	• OHV calibration control knob • Remote control db/OHV Selector
Loudspeaker	• 1W - internal
Power	• 1 x PP3 9V alkaline disposable cell
Battery Life	• 40 hours
Headphone	• Colour coded BLUE3 accepts 3.5mm jack, stereo or mono inspection microphone socket colour coded RED
Socket Display	• 31/2 digit 12.7mm characters • LC Display

Microphone

Dimensions	• 10mm diameter, 1200mm extended, 300mm folded closed
Material	• Aluminium extension
Weight	• 200g

Carry Case

Dimensions	• 450g x 320 x 100mm
Weight	• 1.9kg
Material	• Polycarbonate