

## 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
- Reduce downtime and operational costs with a 5-year calibration period

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<sup>™</sup> is the most effective tester on the market due to its high power and the unique design of the transmitter and pattern of emitters.

## TECHNICAL SPECIFICATIONS HATCHTITETM

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 Material	Impact resistant ABS with leather pouch	
IP Rating	IP66	
User Controls	OHV calibration control knob Remote control db/OHV Selector	
Loudspeaker	1W - interna	
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	

Material	Aluminium extension	
Weight	200g	
Carry Case		
Dimensions	450g x 320 x 100mm	





Material

Polycarbonate

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