

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™ 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 HATCHTITE™

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	22cm (length)
Material	Aluminium extension
Weight	83g

Carry Case

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