

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.

- ① PIN POINTS SMALL LEAKS & AREAS THAT LACK COMPRESSION
- ① LIGHTWEIGHT AND PORTABLE
- ① SIMPLE TO USE, ACCURATE AND RELIABLE
- ① CAN BE CARRIED WITHOUT INTERFERING WITH SHIP OPERATIONS
- ① NO NEED FOR WATER TO DETERMINE LEAKS
- ① FULL ABS TYPE APPROVAL



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	Output	157dB @ 40 KHz
Weight	200g	Emitters	13 individual emitters
Case Material	Impact resistant ABS with leather pouch	Power	6No. AA 1.5V Alkaline batteries
IP Rating	IP 66		Input for 9 to 24V DC
Indicators	3No. Green LED's – correct operation 3No. Red LED's - low battery indicator	User Controls	ON/OFF switch
		Battery Life	4-6 hours

RECEIVER

Dimensions	160 (L) x 95 (W) x 38 (D) mm	Power	1 x PP3 9V alkaline disposable cell
Weight	225g	Battery Life	40 hours
Case	Impact resistant ABS with leather pouch	Headphone	Colour coded BLUE3 accepts 3.5mm jack, stereo or mono Inspection microphone socket colour coded RED
IP Rating	IP66		
User Controls	OHV calibration control knob Remote Control db/OHV Selector	Socket Display	3 1/2 digit 12.7mm characters LC display
Loudspeaker	1W - internal		

MICROPHONE

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

CARRY CASE

Dimensions	450 x 320 x 100mm
Weight	1.9Kg
Material	Polycarbonate

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