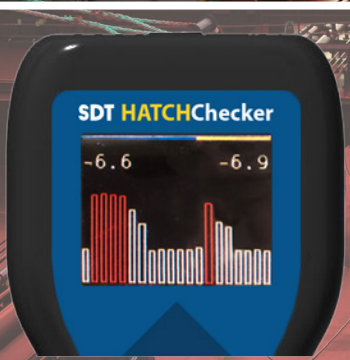


Sherlog

HATCHecker

WHEN HATCH COVER TIGHTNESS MATTERS



Dual Measure Mode.
Switch between static and live streaming with a single button push

Focused

Hatch cover leakage and wetting damage to cargo are a persistent problem in the marine industry. Confirm that hatch covers are weathertight and compliant with ruling regulations by using the new Sherlog HATCHecker which includes cutting edge technology that makes both the T9 transmitter and handheld receiver light, compact, robust and suitable for use in the harsh marine environment.

Simple

The ergonomic and revolutionary design, vibrant colour display and limited number of keys make the Sherlog HATCHecker easy to use, handy for travellers and allows for reliable leak detection with pinpoint accuracy on board ships.

Affordable

SDT's renowned quality and engineering, together with pioneering design and competitive price setting make the Sherlog HATCHecker the most suitable and affordable solution for testing hatch cover tightness.

Remote controlled and powerful transmitter, suitable for testing any hold or space



T-SONIC9



Ultrasound Solutions

sdtultrasound.com/hatchecker



Lloyd's Register

Type Approval Certificate n° 18/30031

Sherlog HATCHecker features

Description

The Sherlog HATCHecker is an ultrasound solution designed for testing hatch cover tightness. Use the Sherlog HATCHecker to find leaky areas on the hatch covers with pinpoint accuracy. The Sherlog HATCHecker works with SDT's ergonomic Flexible Sensor and the T-Sonic9 transmitter.

Kit Contents

- Sherlog HATCHChecker (receiver)
- T-Sonic9 (transmitter)
- + Remote control
- Shoulder strap
- Flexible Sensor (10mm)
- Handle (400mm)
- Sensor cable
- USB Cable
- Headphones
- Screwdriver (toolkit)
- 8 AA Batteries
- Carrying case
- Manual



Sherlog HATCHecker Kit Specifications

General	
Function	Ultrasound measurement device
Display	160x128 pixels Color OLED
Keyboard	5 function keys
Measuring range	-6 to 99.9 dB μ V (reference 0 dB = 1 μ V)
Resolution	0.1 dB μ V
Measurement bandwidth	39.6 to 40.1 kHz
Signal amplification	+30 to +102 by step of 6 dB
Response time	<9 milliseconds
Minimum sensitivity	-31dB (@40 kHz, 0 dB-1 V/ μ bar) Egal to a flow rate up to 10 ⁻³ std. cm ³ /sec.
Environmental	
Operating temperature range	-10 to +50 °C 14 to 122°F
IP rating	IP42
Mechanical	
Housing material	ABS
Dimensions housing	158x59x38.5 mm 6.22"x2.32"x1.51"
Weight	164g 5.78oz
Electrical connector	7-pole female LEMO
Power	
Battery	2 AA batteries
Autonomy	7 hours
Audio	
Amplification	5 adjustable positions in steps of 6 dB
Operable with	SDT provided head set only
Maximum output	+83dB SPL with SDT headset
Headset	25dB NRR Peltor HQ headset

T-Sonic9 Specifications

General		
Transmitter frequencies	39.9 and 40.1 kHz	
Wobulation period	80 ms	
Bluetooth range	100 (328) m (ft)	
Transmitted Sound Pressure Level at 1m, Ref. 0 dB=0.0002 μ bar	Level 1	84 dB SPL
	Level 2	87 dB SPL
	Level 3	93 dB SPL
	Level 4	97 dB SPL
	Level 5	103 dB SPL
	Level 6	113 dB SPL
Power supply	6 AA batteries	
Battery lifespan With Alkaline Batteries AA LR6	Level 1	24 h
	Level 2	21 h
	Level 3	19 h
	Level 4	18:30 h
	Level 5	11 h
	Level 6	5:30 h
Environmental		
Operating temperature range	-10 to +50°C 14 to 122°F Non-condensing	
IP rating	30	
Mechanical		
Housing material	Acrylonitrile Butadiene Styrene (ABS)	

Flexible Sensor Specifications

General	
Sensor type	Airborne removable resonance sensor \varnothing 16mm / \varnothing 10mm
Resonant frequency	40.0 \pm 1.0 KHz
Bandwidth	2 kHz at -6dB
Sensitivity with removable sensor \varnothing 16mm	-65dB (at 40.0KHz; 0dB = 1 volt/ μ bar)
Sensitivity with removable sensor \varnothing 10mm	-75dB (at 40.0KHz; 0dB = 1 volt/ μ bar)
Length	545 mm / 21.8 in 847 mm / 32.2 in with Extension Tube 1377 mm / 54.2 in with Telescopic Pool Handle
Weight	336 grams / 11.8 oz 466 grams / 16.4 oz with Extension Tube 604 grams / 21.3 oz with Telescopic Pool Handle
Operating Temperature	-30 to 70°C / -22 to 158°F Non-condensing
Connector	BNC Connector



SHERLOGReporter

Use the SDT SHERLOGReporter App to quickly create comprehensive hatch cover test reports and share them with principals in real time.



SDT: leader in acoustic detection for industrial and marine maintenance

SDT provides ultrasound solutions that help our customers gain a better understanding about the health of their assets. We help them predict failures, control tightness, optimize energy costs, and improve product quality while contributing to the overall reliability of their assets.



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The Sherlog HATCHecker Kit is part of the SDT product range that combines robustness and high performance. It is available through our worldwide authorized distributor network.