

Sherlog

HATCHecker

WHEN HATCH COVER TIGHTNESS MATTERS



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

agilemicrosys.co.in



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 HATCHecker (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 Ø 16mm / Ø 10mm |
| Resonant frequency | 40.0±1.0 KHz |
| Bandwidth | 2 kHz at -6dB |
| Sensitivity with removable sensor Ø 16mm | -65dB (at 40.0KHz; 0dB = 1 volt/ μ bar) |
| Sensitivity with removable sensor Ø 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.



Authorised Partner



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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.