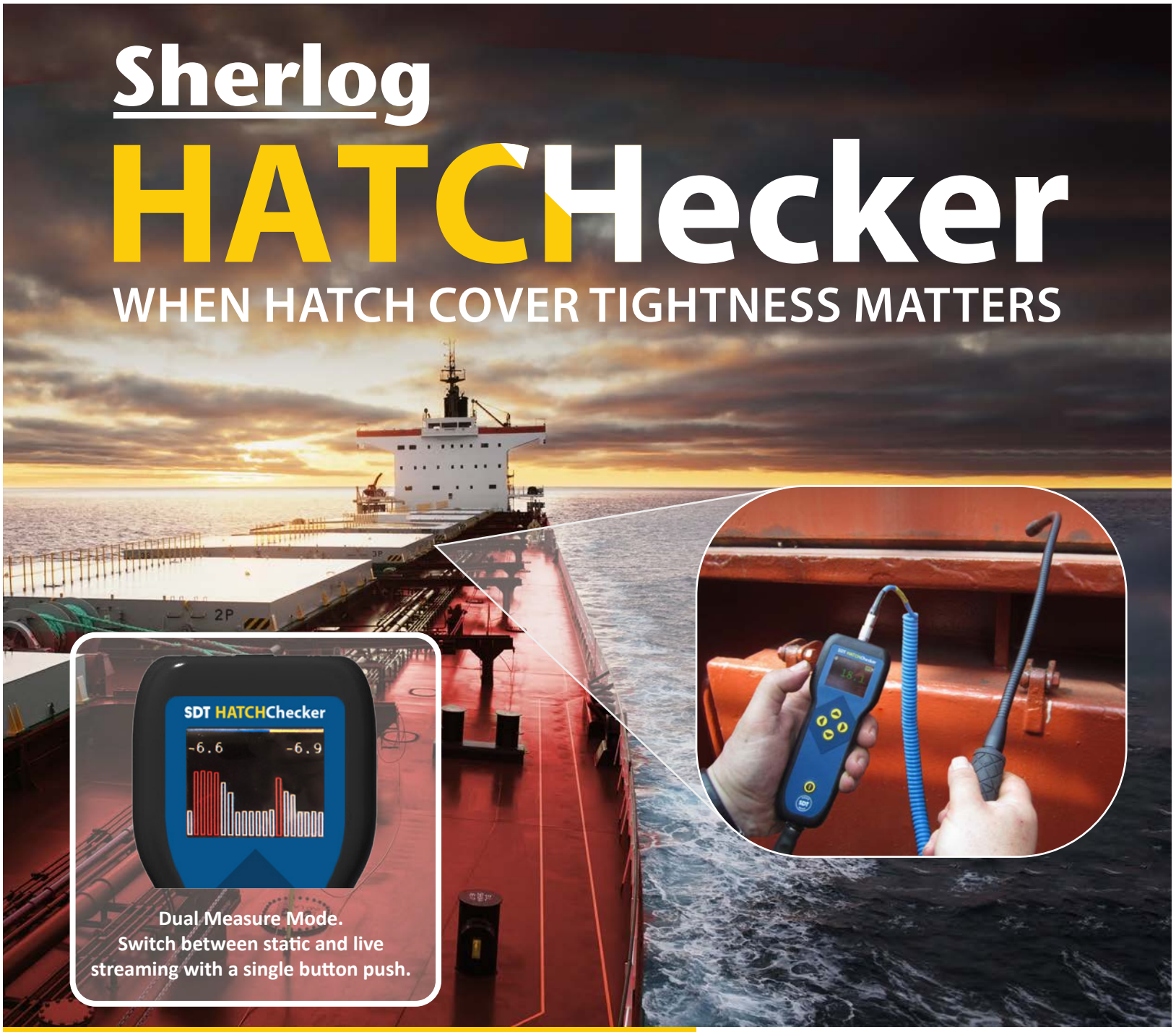
Sherlog HATCHecker

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

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
- FlexID2 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
Operable with	SDT FLEX ID2 & T-Sonic9
Measurement interface	1 channel via a 7 pole LEMO connector
Display	160x128 pixels Color OLED
Keyboard	5 function keys
Typical measurement range	-6 to 99.9 dBµV (reference 0 dB = 1µV)
Resolution	0.1 digits
Measurement bandwidth	39.6 to 40.1 kHz
Signal amplification	+30 dB (built-in sensor gain) to +102 dB by step of 6 dB
RMS period time	250 milliseconds (main screen) / 3 sec (bar graph)
Sampling frequency	64 kHz/ksps
ADC Resolution	12 bits
Environmental	
Operating temperature range	-10 to +50 °C |14 to 122°F
IP rating	IP42
Standards	EN 61326-1:2013, EN 55011:2016 + A1:2017, EN 61000-4-2:2009, EN 61000-4-3:2006 + A1:2008 + IS1:2009 +A2:2010
Mechanical	
Housing material	ABS
Dimensions housing	158x59x38.5 mm |6.22"x2.32"x1.51"
Weight	164g | 5.78oz
Battery/Utility connector	USB Mini-B 5-pin
Power	
Battery	2 AA size batteries
Autonomy	7 hours
Audio	
Operable with	SDT provided head set only
Maximum audio output (protection)	+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		20m/65ft
Transmitted Sound Pressure Level at 1m, Ref. 0 dB=0.0002 µbar	Level 1	86 dB SPL
	Level 2	95 dB SPL
	Level 3	101 dB SPL
	Level 4	105 dB SPL
	Level 5	111 dB SPL
	Level 6	117 dB SPL
Power supply		6 AA batteries or USB Power Supply 5VDC @ 1A
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		40
Mechanical		
Housing material		ABS / PC
Weight (w/ batteries)		400g(14oz)
Wireless Communication		
Type		Bluetooth® 4.0 Certified ISM 2.4GHz module.
Frequency band		2402 – 2480 MHz
Transmitter power max.		4dBm
Using distance		20m/65ft

FlexID2 Sensor Specifications

General	
Sensor type	Airborne removable resonance sensor Ø 10mm
Resonant frequency	40.0±1.0 KHz
Bandwidth	2.5 kHz at-6dB
Sensitivity with removable sensor Ø 10mm	-42dB (at 40.0KHz; 0dB = 1 volt/µbar)
Length	545 mm / 21.8 in 847 mm / 32.2 in with Extension Tube
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	Lemo 7 poles

SHERLOGReporter

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

GET IT ON Google Play

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.

HEAR SDT MORE Ultrasound Solutions

The Sherlog HATCHecker Kit is part of the SDT product