

Focused

Tightness integrity is an issue that plagues every industry. TIGHTChecker is an ultrasound solution focused on pinpointing leaks in any volume. Cars, trains, airplanes, buildings, cleanrooms... TIGHTChecker checks them all.

Simple

TIGHTChecker is so easy to use. Simply open the box, position the T-Sonic1, seal the volume and listen for leaks. TIGHTChecker's crystal-clear sound and vibrant colour display pinpoints even the smallest leaks.

Affordable

With so many things to test, TIGHTChecker is in high demand. It's low entry cost, versatility, and SDT quality make it the most affordable solution for testing everything that leaks. And everything leaks.

Powerful transmitter fills any volume with ultrasound



T-SONIC1





TIGHTChecker features

Description

The TIGHTChecker is an ultrasound solution designed to verify the tightness of closed volumes. Use TIGHTChecker to pinpoint the exact location of leaks in vehicles, buildings, tanks, and ships.

The TIGHTChecker works with SDT's ergonomic Flexible sensor and compact T-Sonic1 transmitter.

Kit Contents

- TIGHTChecker
- T-Sonic1
- Flexible sensor
- Sensor cable
- USB Cable

- Headphones
- Screwdriver
- 4 AA Batteries
- Carrying case



TIGHTChecker Specifications

T-Sonic1 Specifications

FlexID2 Specifications

General General		General		General General	
Operable with	SDT FlexID2 and with SDT T-Sonic1	Vobulation period:	80 ms type	type	resonance sensor
Measurement interface	1 channel via a 7 pole LEMO connector			1	Ø 10mm
Display Keyboard	160x128 pixels Color OLED 5 function keys	Transmitted Sound Pressure Level : at 100 cm, Ref. 0 dB=0.0002 μbar	Boost off: 85 dB SPL Boost on: 105 dB SPL	Resonant frequency	40.0±1.0 KHz
Typical measurement range	-6 to 99.9 dBμV(reference 0 dB = 1 μV)				
Resolution	0.1 digits	1			
Measurement bandwidth	35 to 42 kHz			Bandwidth	2.5 kHz at-6dB
Signal amplification	+30 (built-in sensor gain) dB to +102 dB by step of 6 dB	Beam angle with-6 dB of attenuation:	60°	Sensitivity with removable sensor	-42dB (at 40.0KHz; 0dB = 1 volt/μbar)
RMS period time	250 milliseconds (main screen) / 3 sec (bar graph)	Power supply:	2 AA batteries		
Sampling frequency	64 kHz/ksps	Autonomy with Alkaline batteries:	30h		
ADC Resolution	12 bits	,	3011	Ø 10mm	
Environmental		Environmental		Length	545 mm / 21.8 in
Operating temperature range	-10 to +50 °C 14 to 122°F	Operating temperature range	-10 to +50°C 14 to 122°F	Weight	336 grams / 11.8 oz
IP rating	IP42			Operating	-30 to 70°C /-22 to 158°F Non-
	EN 61326-1:2013, EN 55011:2016 +	IP rating	30	'	
Standards	A1:2017, EN 61000-4-2:2009, EN 61000-	Mechanical		Tempe- rature	condensing
	4-3:2006 + A1:2008 + IS1:2009 +A2:2010	Haveing marked a	A a mada mitarila	Tature	ļ
Mechanical	1.00	Housing material	Acrylonitrile Butadiene Sty- rene (ABS)	Connector	Lemo 7 poles
Housing material	ABS 150,50,20 5 mm 16,22%,2,22%,1,51%	4			
Dimensions housing	158x59x38.5 mm 6.22"x2.32"x1.51"		rene (ABS)	1	
Weight Battery/Utility connector	164g 5.78oz USB Mini-B 5-pin	Weight including batteries	122g (4.3oz)		
Power	ן ווויס ס-ווווויו סכט	Connector for external transducer	Jack 3.5	1	
Battery	2 AA batteries				
Autonomy	7 hours	Optional Accessories			
Audio	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	FUSEUSTC18/J3M: External Closed Transducer 18mm.			

The SDT Checkers Range: Ultrasound detectors for every application and budget.

cable 2.5m, jack 3.5

cable 2.5m, jack 3.5

LEAKChecker: Find compressed air and vacuum leaks.

TRAPChecker: Assess the condition of traps and valves.

LUBEChecker: Optimize bearing lubrication.

TIGHTChecker: Verify the tightness of closed volumes.

HATCHecker: When hatch cover tightness matters.

ULTRAChecker: Check everything.



FUSEUSTO16/J3M: External Open Transducer 16mm,











SDT: leader in acoustic detection for industrial maintenance

SDT provided head set only

+83dB SPL with SDT headset

25dB NRR Peltor HQ headset

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



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



Operable with

Maximum audio output