

#### **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 crystalclear 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	
Function	Ultrasound measurement device	Transmitter frequencies:	39.6 and 39.9 kHz	Sensor	Airborne removable
Operable with	SDT FlexID2 and with SDT T-Sonic1		00	type	resonance sensor
Measurement interface	1 channel via a 7 pole LEMO connector	Vobulation period:	80 ms	1,00	Ø 10mm
Display	160x128 pixels Color OLED	Transmitted Sound Pressure Level : at 100 cm, Ref. 0 dB=0.0002 µbar	Boost off : 85 dB SPL		7
Keyboard	5 function keys			Resonant	40.0±1.0 KHz
Typical measurement range	-6 to 99.9 dBμV(reference 0 dB = 1 μV)		Boost on: 105	frequency	
Resolution	0.1 digits		dB SPL	Bandwidth	2.5 kHz at-6dB
Measurement bandwidth	35 to 42 kHz	, , , , , , , , , , , , , , , , , , ,	500	Balluwiutii	Z.3 KHZ dt-OUD
Signal amplification	+30 (built-in sensor gain) dB to +102 dB by step of 6 dB	Beam angle with-6 dB of attenu- ation:	60°	Sensitivity with	-42dB (at 40.0KHz;
RMS period time	250 milliseconds (main screen) / 3 sec	Power supply:	2 AA batteries	removable	OdB = 1 volt/μbar)
Kivis period time	(bar graph)	<u> </u>			
Sampling frequency	64 kHz/ksps	Autonomy with Alkaline batteries:	30h	sensor	
ADC Resolution	12 bits	Environmental		Ø 10mm	
Environmental			10.1 5000	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	IP rating	30	Operating	<u> </u>
	EN 61326-1:2013, EN 55011:2016 +	9	5		-30 to 70°C /-22
Standards	A1:2017. EN 61000-4-2:2009. EN 61000-	Mechanical		Tempe-	to 158°F Non- condensing
	4-3:2006 + A1:2008 + IS1:2009 +A2:2010	Housing material	Acrylonitrile	rature	
Mechanical			Butadiene Sty-	Connector	Lemo 7 poles
Housing material	ABS		rene (ABS)		
Dimensions housing	158x59x38.5 mm  6.22"x2.32"x1.51"	Weight including batteries	122g (4.3oz)		
Weight	164g   5.78oz				
Battery/Utility connector	USB Mini-B 5-pin	Connector for external transducer	Jack 3.5		
Power		Optional Accessories			
Battery	2 AA batteries	FUSEUSTC18/J3M : External Closed Transducer 18mm,			
Autonomy	7 hours				

# 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

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.



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The TIGHTChecker is part of the SDT product range that combines robustness and high performance.

It is available through our worldwide authorized distributor network.