

# TIGHTChecker

EVERYTHING LEAKS...



## 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**



Ultrasound Solutions

# 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
- 2 AA Batteries
- Carrying case



General	
Function	Ultrasound measurement device
Display	160x128 pixels Color OLED
Keyboard	5 function keys
Measuring range	-6 to 99.9 dB $\mu$ V (reference 0 dB = 1 $\mu$ V)
Resolution	0.1 dB $\mu$ V
Measurement bandwidth	35 to 42 kHz
Signal amplification	+30 to +102 by step of 6 dB
Response time	<9 milliseconds
Minimum sensitivity	-31dB (@40 kHz, 0 dB-1 V/ $\mu$ bar) Egal to a flow rate up to 10 <sup>-3</sup> std. cm <sup>3</sup> /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	4 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

## The SDT Checkers range :

Ultrasound detectors that solve four major reliability problems.

**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.



### SDT: leader in acoustic detection for industrial maintenance

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.



Ultrasound Solutions



(51) 3585.1259 | (47) 3278.0732  
www.vibmaster.com.br

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