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

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sdtultrasound.com/tightchecker

TIGHTChecker Features

Description

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

Designed for use with SDT's ergonomic Flexible sensor and compact T-Sonic1 transmitter.



Kit Contents

- TIGHTChecker
- Sensor cable
- USB Cable
- Flexible sensor
- T-Sonic1
- Headphones
- Carrying case
- Extension Pole (400mm / 15.75in)

General	
Function	Ultrasound measurement device
Operable with	SDT Flex2 and with SDT T-Sonic1
Measurement channel	1 channel via a 7 pole LEMO connector
Display	160x128 pixels Color OLED
Keyboard	5 function keys
Measuring range	-6 to 99.9 dBµV (reference 0 dB = 1 µV) (resolution 0.1 dBµV)
Measurement bandwidth	35 to 42 kHz
Signal amplification	+30 to +102 in steps of 6 dB
Response time	<9 milliseconds
Minimum sensitivity	-31dB (@40 kHz, 0 dB-1 V/µbar) Equal 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 and weight	ABS, 164g | 5.78oz
Dimensions housing	158x59x38.5 mm |6.22"x2.32"x1.51"
Sensor connector	7-pole female LEMO
Battery/Utility connector	USB Mini-B 5-pin
Power	
Battery	2 AA batteries
Autonomy	4 hours
Audio	
Amplification	-24 to 0 dB in steps of 6 dB
Maximum output	+83dB SPL with 25dB NRR Peltor HQ SDT 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 ultrasound detection

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.

HEAR SDT MORE Ultrasound Solutions

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The TIGHTChecker is part of the SDT product range that is available through our worldwide authorized distributor network.