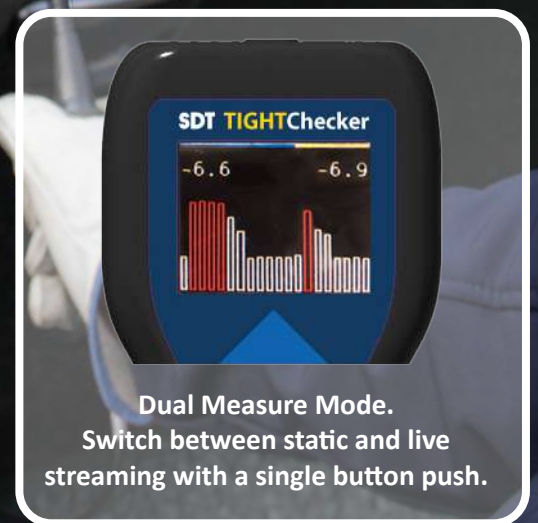


TIGHTChecker

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

sdtultrasound.com

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

| General | |
|-----------------------------|--|
| Function | Ultrasound measurement device |
| Operable with | SDT FlexID2 and with SDT T-Sonic1 |
| 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 = 1 μV) |
| Resolution | 0.1 digits |
| Measurement bandwidth | 35 to 42 kHz |
| Signal amplification | +30 (built-in sensor gain) dB 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 batteries |
| Autonomy | 7 hours |
| Audio | |
| Operable with | SDT provided head set only |
| Headset | 25dB NRR Peltor HQ headset |

T-Sonic1 Specifications

| General | |
|--|--|
| Transmitter frequencies: | 39.6 and 39.9 kHz |
| Vobulation period: | 80 ms |
| Transmitted Sound Pressure Level : at 100 cm, Ref. 0 dB=0.0002 μbar | Boost off : 85 dB SPL Boost on : 105 dB SPL |
| Beam angle with -6 dB of attenuation: | 60° |
| Power supply: | 2 AA batteries |
| Autonomy with Alkaline batteries: | 30h |
| Environmental | |
| Operating temperature range | -10 to +50°C 14 to 122°F |
| IP rating | 30 |
| Mechanical | |
| Housing material | Acrylonitrile Butadiene Styrene (ABS) |
| Weight including batteries | 122g (4.3oz) |
| Connector for external transducer | Jack 3.5 |
| Optional Accessories | |
| FUSEUSTC18/J3M : External Closed Transducer 18mm, cable 2.5m, jack 3.5 | |
| FUSEUSTO16/J3M : External Open Transducer 16mm, cable 2.5m, jack 3.5 | |

FlexID2 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 |
| Weight | 336 grams / 11.8 oz |
| Operating Temperature | -30 to 70°C / -22 to 158°F Non-condensing |
| Connector | Lemo 7 poles |

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

- 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.
- HATCHChecker:** When hatch cover tightness matters.
- ULTRAChecker:** Check everything.



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.



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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.