



## SDT TIGHTChecker: Datasheet

### Description:

The SDT TIGHTChecker is an ultrasound solution designed to verify the tightness of closed volumes. Use SDT TIGHTChecker to pinpoint the exact location of leaks in vehicles, buildings, tanks, and ships. The SDT TIGHTChecker works with SDT's ergonomic Flexible sensor and compact T-Sonic1 transmitter.



### Specifications:

General		
Function		Ultrasound measurement device
Operable with		SDT FlexID2 and SDT T-Sonic1
Measurement interface		1 channel via a 7 pole LEMO connector
Maximum cable length	m(ft)	Up to 30 (98) (since v 3.1.535)
Display		160x128 pixels Color OLED
Keyboard		5 function keys
Measuring range	dBµV	-6 to 99.9 (reference 0 dB = 1 µV)
Resolution	digits	0.1
Measurement bandwidth	kHz	35 to 42
Signal amplification	dB	+30 to +102 by step of 6 dB
RMS period time		250 ms (main screen) / 3 sec (bar graph)
Sampling frequency	kHz/ksps	64
ADC Resolution	bits	12
Firmware update		Via SDT Updater <a href="https://sdtultrasound.com/support/software/">https://sdtultrasound.com/support/software/</a>
Environmental		
Operating temperature range	°C (°F)	-10 to +50 (14 to 122) non-condensing
IP rating		IP42
Compliance		EMC compliant (directive 2014/30/EU) ROHS compliant (directive 2011/65/EU)
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	mm (in)	158x59x38.5 (6.22x2.32x1.51)
Weight	g (oz)	164 (5.78)
Battery/Utility connector		USB Mini-B 5-pin

Power		
Battery		2 AA size batteries
Autonomy		7 hours
Audio		
Operable with		SDT provided headset only
Headset		25 dB NRR Peltor quality headphones
Warranty		
Lifetime warranty		Visit <a href="http://www.sdtultrasound.com">www.sdtultrasound.com</a> for details

## Kit content:

Reference	Designation
FU.TIC.001	SDT TIGHTChecker
FUHDPH-1	Headphones
SIBAT1,5VALK-AA (*4)	BATTERY Alkaline 1,5V AA (Maxell-Panasonic-Duracel-Sanyo)
FUCABLSPLE7LE7-3	Spiral cable with 2 male 7-pole LEMO connectors
SICABUSBAUSBMM	USB Cable
FU.TIC.CBOX.001--01	Carrying case
FU.FLX2.001--01	SDT FLeXID2
FU.T01.001--01	SDT T-Sonic1

NB: Additional details are available from the download section of SDT web site: [www.sdtultrasound.com](http://www.sdtultrasound.com)

## Safety recommendations:

- Read and follow the user manual.
- Do not expose the equipment to rough handling or heavy impacts.
- Do not disassemble the instrument.
- Do not use the equipment in areas where its use is prohibited (ex: Ex Zones).
- Do not expose the equipment to high humidity or direct contact with water.
- All repairs and calibrations must be performed by SDT or authorized services.
- Using any other headset or any sensor than the ones supplied with the instrument can cause internal damage to the equipment.
- Permanent hearing loss may occur if you use your headset at a high volume. Set the volume to a safe level.

5	CMA 2022/02/25	Safety recommendations /cable length (firmware >=3.1.508)	CGI
4	CMA 2021/03/01	Safety recommendations	RGO
3	CMA 2020/12/25	Kit content/add new info	CGR
2	CMA 2020/06/25	Revised version	CGR
1	AKP 2017/08/31	Original version	JPE
<b>Ver.</b>	<b>Editor</b>	<b>Nature of modification</b>	<b>Verified</b>

*The information herein is believed to be accurate to the best of our knowledge.  
 Due to continuous research and development, specifications are subject to change without prior notice.*