

SDT HATCHecker: Datasheet

Description:

The **HATCHecker** is an ultrasound solution designed to test the integrity of vessels for weathertightness.

Use **HATCHecker** to pinpoint the exact location of leaks in hatch covers.

The **HATCHecker** works with SDT's ergonomic Flexible Sensor and the T-Sonic9 transmitter.



Specifications:

General		
Function		Ultrasound measurement device
Operable with		SDT FLEX ID2 & T-Sonic 9
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	dB μ V	-6 to 99.9 (reference 0 dB = 1 μ V)
Resolution	digits	0.1
Measurement bandwidth	kHz	39.6 to 40.1
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 https://sdtultrasound.com/support/software/
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 www.sdtultrasound.com for details

Kit content:

Reference	Designation FS.HTC.001-03
FU.HTC.001-01	HATCHecker w/o batteries (S/N 555 YYY XXXX)
FU.HTC.UGD.0001-01	HATCHecker - User's guide w/ datasheet
FU.TS09.001-02	T-Sonic 9 - US emitter device w/o batteries (S/N 545 YY NNNN)
FU.TS09.002-02	T-Sonic 9 - Remote control w/ batteries (S/N 547 YY NNNN)
FA.TS09.DVP	T-Sonic 9 - Protection holster EPDM 60° Black w/ magnetics
FAHOLSAC-01	DRAAGRIEM - Blue w/ logo SDT
SIBAT1,5VALK-AA (*8)	BATTERY Alkaline 1,5V AA (Maxell-Panasonic-Duracel-Sanyo)
FU.FLX2.001-03	FLEX2 - w/ ampli – Gooseneck 400 mm w/o sensor (S/N 002 YY NNNN)
FA.FLX2.R10.001-01	Removable sensor 10 mm for FLEX2 (plastic housing S/N CYNNNN)
FA.FLX2.HND.003-01	FLEX2- Handle 400 mm w/ rubber
FUCABLSPLE7LE7-10	CABLE SPIRAL – LEMO7P<>LEMO7P L=6/18dm Black/Black
FUHDPH-21	HT52B-112 3M PELTOR CH-3 FLEX2 Listen only headphones w/ neckband
SICABUSBAUSBMM	SB2412 USB2.0 Cable usb type A<>USB type B5 mini,1.8m-black
FA.TS09.MMF.005-01	TS09-Attenuation tool functional test
FUTOOLSCRDRIV	IT3874 Screwdriver set w/ 6 bits - grey w/ led - no print
FU.HTC.CBOX.001-01	T6 Evolution plastic case blue/black locks - HATCHecker (w/logo SDT+foam)

NB: Additional details are available from the download section of SDT web site: 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.

4	CMA 2022/02/25	Safety recommendations, Updater and cable length	CGI
3	CMA 2021/03/01	Safety recommendations	RGO
2	CMA 2020/05/01	Added new info	CGR
1	CMA 2020/06/25	Original version	CGR
Ver.	Editor	Nature of modification	Verified

*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.*