



SDT TRAPChecker: Datasheet

Description:

The SDT TRAPChecker is an ultrasound solution designed to assess the condition of steam traps and valves.

The SDT TRAPChecker detects internal turbulence by defective steam traps and passing valves.

The SDT TRAPChecker works with SDT's RS2 Needle Contact Sensor.



Specifications:

| General | | |
|-----------------------------|------------|--|
| Function | | Ultrasound measurement device |
| Operable with | | SDT RS2 Needle Sensor |
| 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 |
| Typical measuring range | dB μ V | -6 to 99.9 (reference 0 dB = 1 μ V) |
| 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 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 |
|---------------------|---|
| FU.TPC.001 | SDT TRAPChecker |
| FUHDPH-1 | Headphones |
| FUCABLSPLE7LE7-10 | Spiral cable with 2 male 7-pole LEMO connectors |
| SICABUSBAUSBBM | USB Cable |
| FU.TIC.CBOX.001--01 | Carrying case |
| FU.SEN.RS2N.001-01 | SDT RS2 Needle Contact Sensor. |
| FU.TPC.UGD.001-01 | TRAPChecker - USER'S GUIDE W/ DATASHEET |
| SIBAT1,5VALK-AA | BATTERY ALKALINE 1,5V AA |
| FUTOOLSCRDRIV | Screw Driver (multi tools) |
| FU.TPC.CBOX.001-01 | T6 EVOLUTION PLASTIC CASE |

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

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|-------------|----------------|---|-----------------|
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| 5 | CMA 2022/02/25 | Safety recommendations +firmware update >=3.1.508 | CGI |
| 4 | CMA 2021/03/01 | Safety recommendations | RGO |
| 3 | CGR 2021/01/04 | Correction of Item Code of Kit Content/added new info | CMA |
| 2 | CMA 2020/06/25 | Revised version | CGR |
| 1 | AKP 2017/08/29 | Original version | JPE |
| 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.*