DC.MBT3.DAT.001



Commercial document

Datasheet SDT RAPSODYBOX

Description:

SDT RAPsodyBox is a signal generator tool that can be used to repeatedly reproduce a series of scenario that can be encountered in industry.

These scenarios can be used to explain the use of SDT measurement devices and show their possibilities as well as analyze the expected behavior on the measurements during machine maintenance, lubrication, leak detection, tightness inspection ...

SDT RAPsodyBox can also be used to reproduce specific recorded signals (using SDT instruments) encountered on the field (for demonstration and training purposes).

As the signals are known, the box also makes it possible to carry out a series of functional tests on the sensors and the devices to check and control the integrity of the measurements (for testing and conformity purpose).



- 1. Structure borne transducer
- 2. Airborne resonant transducer
- 3. Push button
- 4. Micro USB type B
- 5. Status indicator light

Specifications:

General	
Function	Ultrasound signal generator
Software	SDT RapsodyBox on PC windows
Operable with	SDT devices
Transmitting sources	Contact and airborne
Power supply	Micro USB type B
Communication	USB or Bluetooth
Environmental	

SDT International sa-nv • Bd de l'Humanité 415 • B-1190 Brussels (Belgium) • Tel: +32(0)2 332 32 25 • info@sdt.be • www.sdtultrasound.com • CE VAT: BE 0418.020.213 KBC BE35 4364 1311 1137 BIC KREDBEBB • BNP Paribas Fortis BE38 2930 3455 3172 BIC GEBABEBB18A • ING BE31 3631 0661 4255 BIC BBRUBEBB CBC BE03 7320 3539 8684 BIC CREGBEBB • BNP PARIBAS France FR76 3000 4023 2300 0113 8083 378 BIC BNPAFRPNFFE • General conditions on www.sdtultrasound.com

Operating temperature range	80 (85)	-40 to 85 (-40 to 30)		
*for the System on chip BCM2835	°C (°F)			
IP rating		40		
Approvals		EMC compliant (directive 2014/30/EU)		
		ROHS compliant (directive 2011/65/EU)		
Mechanical		KOHS compliant (directive 2011/05/20)		
Housing material		Anodized aluminum profile / plastic lid: ABS		
Dimensions				
	mm (in)	RAPSodyBox SDD RAPSodyBox ser Guideo		
Weight	g (oz)	520 (18)		
Signal output (typical)				
Structure borne				
Resonant frequency	kHz	60		
Thread		M6		
Signal amplitude range	dB	50		
Airborne				
Resonant frequency	kHz	40 ± 1		
Bandwidth (attenuation of -6dB)	kHz	2 kHz		
Transmitting sound level		100 dB _{SPL} at 1 m		
*at max volume				
Total beam angle (- 6 dB)	0	55		

Response curves:

Typical response curve of Structure borne transducer:





Typical response curve of airborne transducer:



Safety recommendations:

- Do not expose the equipment to rough handling or heavy impacts
- Always read and follow the user manual
- Opening the housing of the instrument may result in hazardous mishandling and voids warranty
- The equipment should not be used in areas where there is a risk for explosion



- Do not expose the equipment to high humidity or direct contact with water
- All repair work must be performed by SDT or authorized services
- Using any other headset or any sensor than the one supplied with the instrument can cause internal damage

to the device

NB: Additional specifications could be found from the download section of SDT web site: www.sdtultrasound.com

Ver.	Editor	Nature of modification	Verified
1	CMA 2020/08/24	Original version	CGR
2	CMA 2021/07/19	Modified version	CGR
3			

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.