

Datasheet ULTRASense (FU.SEN.UTS.001)

Description :

ULTRASense is a compact, airborne ultrasound sensor that connects directly to specific SDT instruments via a direct coupled LEMO7 input. It's primary design is to detect sources of airborne ultrasound including pressure leaks, electrical partial discharge, mechanical defects in belt drives, chain drives, and direct coupled shafts. ULTRASense detects signals generated by T-Sonic1 and T-Sonic9 ultrasound transmitters and is therefore applicable to tightness inspections.



Specifications:

General		
Description/type		Airborne ultrasound sensor
Compatibility		SDT 340, ULTRAChecker
Certifications		EMC, ROHS (see DoC)
Center frequency	kHz	40 ± 1
Useful bandwidth (-6 dB)	kHz	2.0 [38.4-40.4]
Residual audible bandwidth	kHz	2.25
Sensitivity (at 40 kHz; 0dB = 1 V/Pa)	dB	-11 Considering built-in preamplifier
Total beam angle (- 6 dB)	°	55
Built-in preamplifier	dB	+30 (can be disabled)
Environmental		
Operating temperature range	°C (°F)	-30 to 70 (-22 to 158), non-condensing
IP rating		40
Mechanical		
Housing material		ABS/PC
Dimensions	mm	
Weight	g (oz)	35 (1.2)
Connector		Lemo 7 pins female

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.

NB: Additional specifications can be found from the download section of SDT web site

3			
2	CMA 26/07/2021	New layout, additional picture, adding temperature range & material	RGO
1	CGR 05/06/2019	Original version	CMA
Ver.	Editor	Nature of modification	Verified