DATASHEET RS2A (FU.RS2A.001)

Description:
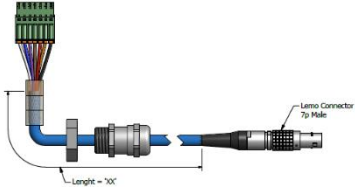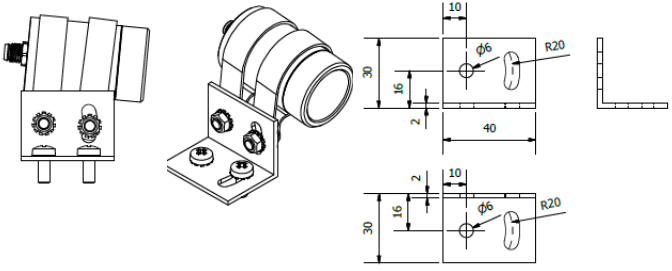
The SDT RS2A is designed to be installed into an electrical cabinet. Compatible with the handheld devices SDT340 and SDT ULTRAChecker, the airborne ultrasound sensor and its accessories provide an easy and secure way to access valuable information about the health of your electrical installation or for leak detection. Whether you're conducting periodic and traceable surveys or audible checks on the fly, the SDT RS2A offers unparalleled insight into the condition of your assets, enabling you to make informed decisions about maintenance and repairs.
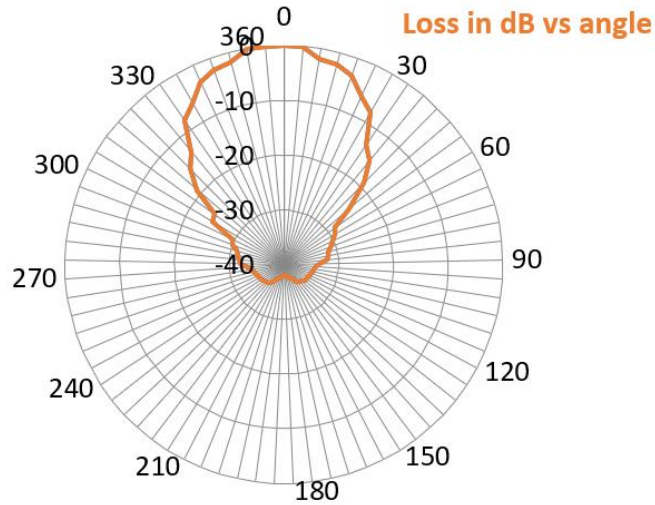
Specifications:

General		
Description		Airborne open ultrasound sensor
Type		SDT RS2A (S/N 537 YY XXXX)
Type of transducer		Piezoelectric ceramic (opening $\varnothing$16 mm)
Compatibilities For permanent monitoring, see SDT CONMONSense RSC.002/3, RSV.002/3		SDT340 SDT Checkers
Certifications		EMC, ROHS (see DoC)
Center frequency	kHz	40 ± 1
Useful bandwidth (attenuation of 6 dB)	KHz	2.0 [38.4-40.4]
Sensitivity *At 40.0KHz; 0dB = 1 volt/Pa*	dB	-13 considering built-in preamplifier
Typical total beam angle (- 6 dB)	°	55 (at 25 °C)
Built-in preamplifier	dB	+30
Environmental		
Operating temperature range	°C (°F)	-30 to 70 (-22 to 158), non-condensing
IP rating		40
Mechanical		
Housing		• Stainless Steel • Anodized Aluminum (Black cover)
Dimensions	mm (in)	L = 49 (1.93) $\varnothing$ = 31.8 (1.22)
Weight	g (oz)	135 [Gram] / 4.8 [Oz]
Connector		Lemo 7 pin - Female

Available accessories:

FUCABLSPLE7LE7 *SENSOR<>SDT handheld device* *SDT handheld device<>RMB*	CABLE SPIRAL - LEMO7P<> LEMO7P L=6/18dm (RS1, RS2, LUBESense1, FLX2, RS2A)
FU.RMB.CABL.100-XX FU.RMB.CABL.102-XX *SENSOR<>RMB*	RMB - TERMINAL BLOCK PLUG 7P<>LE7M, L=XX m W/ 2x CABLE GLAND, FOR RS1T-RS2T, LUBESense1, RS2A RMB - TERMINAL BLOCK PLUG 7P<>LE7M 90°, L=XX m W/ 2x CABLE GLAND, FOR RS1T-RS2T, LUBESense1, RS2A
FU.RMB.001	Remote Monitoring Box (Plastic SB)
FU.RMB.002	Remote Monitoring Box (Stainless steel)
FA.RSC.ACC.001-01	CONMONSense Mounting Accessories/Brackets

Beam angle:

Safety recommendations:

- Risk of injury when working in electrical environment.
- Adhere to all safety rules and regulations in your facility.
- Always wear proper protective clothing and use insulated tools when around electrical hazards.
- Do not expose the equipment to rough handling or heavy impacts.
- Always read and follow the user manual (SDT340).
- Opening the sensor housing may lead to incorrect measurements and void the warranty.
- The equipment should not be used in areas where there is a risk of explosion.
- Do not expose the equipment to high humidity or direct contact with water.
- All repairs must be performed by either SDT or an authorized service provider.

Ver.	Editor	Nature of modification	Verified
3			
2			
1	CMA 2023/11/05	Original version	CGR 11/05/2023

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.

Ultrasound Solutions