CLAW TRANSDUCERS

TECHNICAL SPECIFICATION

GUL manufactures claw-type transduction rings for inspecting small-diameter piping between ¾" and 2.5". The Claw Transducer Ring is designed to fit between closely spaced tubes and pipes, making it suitable for a range of applications.

Ring Type	2-Row Claw	4-Row Claw
Application Areas		
Generic Pipe	RECOMMENDED	RECOMMENDED
Typical Pipe Rack	RECOMMENDED	SUITABLE
CUI	RECOMMENDED	SUITABLE
High Temperature Pipe (100°C to 150°C) [212°F to 302°F]	SUITABLE	SUITABLE
Tight Access	RECOMMENDED	SUITABLE
Generally Corroded Pipe	RECOMMENDED	SUITABLE
Test under Supports on Clean Pipe	SUITABLE	RECOMMENDED
Welded Supports	SUITABLE	RECOMMENDED
Minimize Dead Zone	SUITABLE	RECOMMENDED
Pipe with Bitumen Coating	NOT SUITABLE	NOT SUITABLE
Concrete Lined Pipe	RECOMMENDED	SUITABLE
Soil Interface	RECOMMENDED	RECOMMENDED
Concrete Interface	SUITABLE (1)	RECOMMENDED
Buried Pipe	RECOMMENDED	SUITABLE

TECHNICAL SPECIFICATION SUMMARY

(Subject to change)

Ring Type	2-Row Claw	4-Row Claw
Available sizes		
Nominal Pipe Sizes (NPS)	¾" to 2.5" (DN 20 to 65)	¾" to 1.5" (DN 20 to 40)
Transducer Features		
Transducer Type	HD	
Interchangeable Transducers	Yes (2)	
Transducer Quick Release Tool	Yes	
Ring Features		
Operating Frequency Range	High	
Closing Mechanism	Screw Extension Arm	
Operating LED Button	No	
Coupling Method	Individual spring loading	
Physical Characteristics		
Radial Clearance	38 mm [1.5"]	38 mm [1.5"]
Axial Clearance	7.5 cm [3.0"]	15 cm [6.0"]
Operating Temperature	-40°C to 250°C [-40°F to 482°F]	
Interface		
Connectivity to Wavemaker®	Multi-channel Lemo® connection cable	
Auto Ring Recognition	Yes	
System Compatibility	Wavemaker® G5 or Wavemaker® G4mini (Full)	

(1) Reduced Range.
(2) Frequent changing of transducers is not recommended.

AVAILABLE MODELS

Model		OD		Suitable for		
2-Row Claw	**4-Row Claw**	**Minimum OD**	**Maximum OD**	**Tube** Size	or	**Pipe** Size
R2G19	R4G19	17 mm	22 mm	0.75"		-
R2G25	R4G25	23 mm	28 mm	1"		0.75"
R2G31	R4G31	30 mm	35 mm	1.25"		1"
R2G38	R4G38	38 mm	43.2 mm	1.5"		1.25"
R2G44	R4G44	43.5 mm	48.5 mm	1.75"		1.5"
R2G50	R4G50	47.5 mm	52.5 mm	2"		1.5"
R2G57	-	55.5 mm	60.5 mm	2.25"		-
R2G63	-	59.5 mm	64.5 mm	2.5"		2"

GUIDED ULTRASONICS LTD.

Wavemaker House
Brentford TW8 8HQ
United Kingdom

sales@guided-ultrasonics.com
guided-ultrasonics

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www.guided-ultrasonics.com