



Ultrasonic Air Transducers

Non-contact level detection



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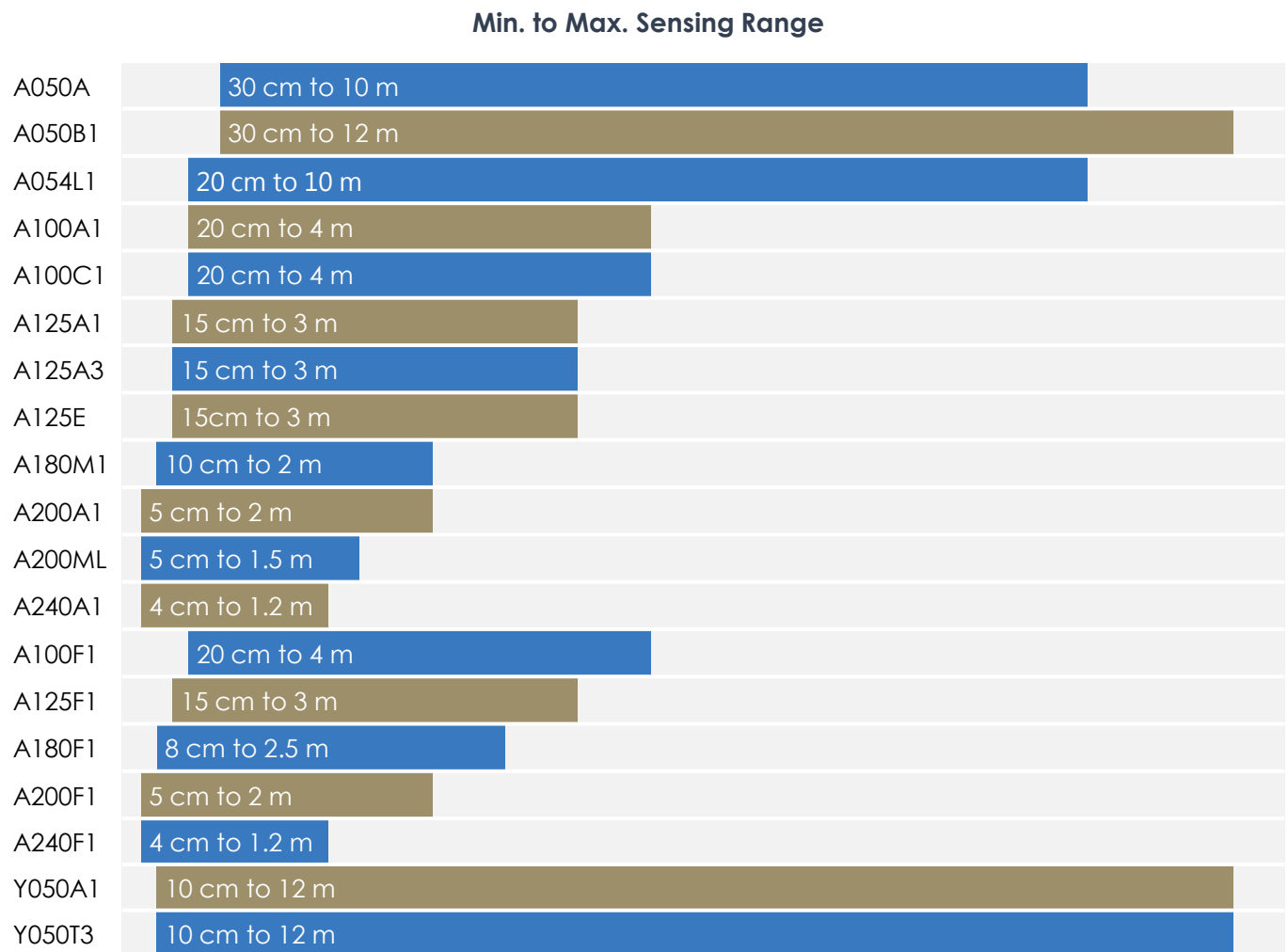
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Ultrasonic level transducer you need is here!

Higher sensing range, lower blind zone

Ultrasonic transducers play an important role in a variety of non-contact level measurement applications. Unictron offers several types of transducer products to meet different measurement requirements and constraints. Our transducers with PVDF housings can operate in harsh chemical environments to measure the level of fluids, pastes and coarse bulk materials in demanding level measurement applications.



Applications

- Petrochemical industry
- River level monitoring
- Vehicle fuel level detection
- Food and beverage industry
- Water supply and drainage industry
- Grain, powder, granular material level detection

Features

- High performance
- High reliability
- Chemical resistance
- Waterproof IP68
- Patented technologies

Unictron's ultrasonic transducers have been implementing our in-house piezoceramics and acoustic matching layer as well as the novel patented technologies to perform high performance and extraordinary reliability. These ultrasonic transducers are suitable for non-contact level detection and proximity measurement.

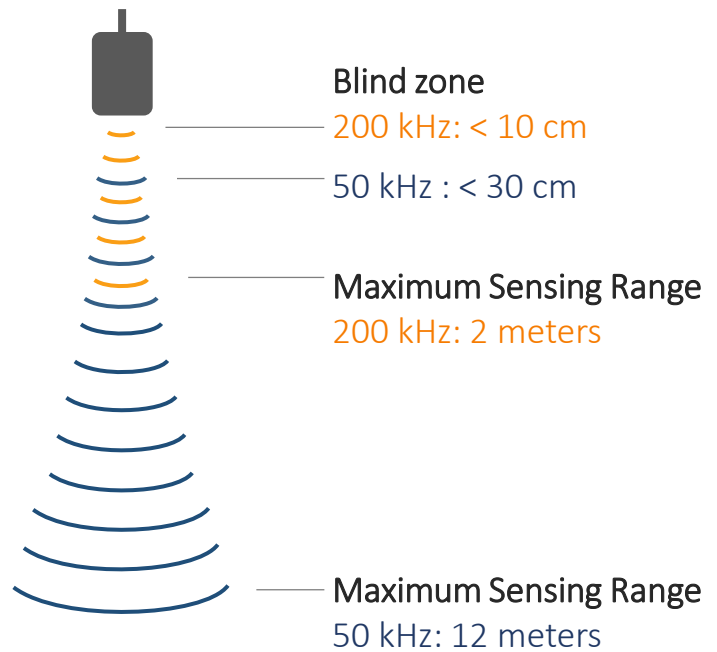
Model Name	A050A	A050B1	A054L1	A100A1	A100C1	A125A1
						
Frequency (kHz)	50	50	54	100	100	125
Dimensions (mm)	OD 47.0 H 48.0	OD 56.0 H 51.0	OD 47.0 H 48.0	OD 29.0 H 30.0	OD 29.0 H 56.1	OD 25.0 H 25.0
Sensing Range (meter)	0.3 - 10	0.3 - 12	0.2 - 10	0.2 - 4	0.2 - 4	0.15 - 3
Housing Material	PVDF	PVDF	PVDF	PVDF	PVDF	PVDF
IP Rating	IP68	IP68	IP68	IP68	IP68	IP68

Model Name	A125A3	A125E	A180M1	A200A1	A200ML	A240A1
						
Frequency (kHz)	125	125	180	200	200	240
Dimensions (mm)	OD 25.0 H 25.0	OD 29.0 H 126.6	OD 15.35 H 4.7	OD 16.0 H 19.0	OD 16.0 H 19.0	OD 13.5 H 18.5
Sensing Range (meter)	0.15 - 3	0.15 - 3	0.1 - 2	0.05 - 2	0.05 - 1.5	0.04 - 1.2
Housing Material	PVDF	PVDF	Elastomer	PVDF	Titanium alloy	PVDF
IP Rating	IP68	IP68	IP68	IP68	IP68	IP68

Model Name	A100F1	A125F1	A180F1	A200F1	A240F1
					
Frequency (kHz)	100	125	180	200	240
Dimensions (mm)	OD 29.0 H 28.5	OD 25.0 H 23.5	OD 14.8 H 9.0	OD 16.0 H 18.0	OD 13.5 H 17.5
Sensing Range (meter)	0.2 - 4	0.15 - 3	0.08 - 2.5	0.05 - 2	0.04 - 1.2
Housing Material	PVDF	PVDF	Engineering plastic	PVDF	PVDF
IP Rating	IP68	IP68	IP68	IP68	IP68

Dual-frequency non-contact level detection

Unictron has successfully developed a novel type of dual-frequency non-contact ultrasonic air transducer with innovative technologies. This provides the advantage of maximizing detection distance and minimizing the blind zone in one transducer, making the application of the transducer more flexible.



Model Name	Y050A1		Y050T3	
				
Frequency (kHz)	50	200	50	200
Directivity (Full Angle @-3 dB)	10 ± 2	6 ± 2	10 ± 2	6 ± 2
Maximum Sensing Range (meter)	12	2	12	2
Blind Zone (cm)	< 30	< 10	< 30	< 10
Dimensions (mm)	OD 56.0 H 51.0		OD 56.0 H 51.0	
Housing Material	PVDF		PVDF	

Features

- Long sensing range
- Short blind zone
- High resolution
- High reliability
- Chemical resistance
- Waterproof IP68
- Patented technologies

Directivity Diagram

