



Ultrasonic Air Transducers


for anemometer applications


Drone Nest


Weather Station

Wind Turbine



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Unictron's ultrasonic transducers have been implementing our in-house piezoceramics and acoustic matching layer as well as the novel patented technologies. These compact size ultrasonic transducers are suitable for air flow detection, anemometers, etc, along with high sensitivity, low noise, high precision and reliability.

Model Name	BPY4	A240C3	A300E1	A300E3	A330L1
					
Frequency (kHz)	40	240	300	300	330
Dimensions (mm)	OD 14.4 H 9.0	OD 13.5 H 18.5	OD 9.9 H 7.3	OD 10.0 H 7.0	OD 9.9 H 7.9
Directivity (Full Angle @-6 dB)	70°	12°	10°	15°	15°
Housing Material	Aluminum	Engineering plastic	Engineering plastic	Brass	Engineering plastic
Face Material	Aluminum	Engineering plastic	Composite plastic	Composite plastic	Engineering plastic
Operating Temperature (°C)	-40 ~ +85	-40 ~ +85	-40 ~ +60	-40 ~ +85	-40 ~ +85

Industries & Applications

- Anemometer
- Air flow meter
- Proximity measurement

Features

- Patented technologies
- In house advanced piezoceramics
- Unique matching layer formulation
- High sensitivity
- Low noise
- Good reliability
- IP68

Founded in 1988, Unictron has over 30 years of experience in the field of piezoceramics and our team is competent to provide tailor-made solutions for different types of ultrasonic applications. In the field of anemometers, Unictron also uses its absolute technological advantages to create excellent ultrasonic air transducers to meet customer needs.

	Subjects	Unictron	Competitor
Product Features	Housing Design	Enclosed	Matching Layer Exposed
	Frequency	40 to 330 kHz	40 to 300 kHz
	Bandwidth	± 10%	± 5%
	Accuracy	Higher	Mediocre
	Sensitivity	Higher	Mediocre
	Ingress Protection	IP68	IP65 ~ IP67
	Thunderstorm Tolerance	Outstanding	Mediocre
	Size	Compact as Well as Customized	Standard Only
	Reliability (-40°C ~ +85°C Thermal Cycle)	Outstanding	Mediocre
	Salt Tolerance	Outstanding	Mediocre
	Hydrophobic Level	Outstanding	Poor
	Applicable Settings	Wide in Range	Narrow
Company Features	Technical Support	Public Company, Proprietary Design and Patents, Full R&D Capability	Unclear
	Core Material and Product Development Capability	Available	None
	Certifications	ISO 9001 、 ISO 14001 、 ISO 45001 、 IATF 16949	Unclear
	Visibility in Global Market	Certified by Major Companies From North America, Europe and Japan	Unclear