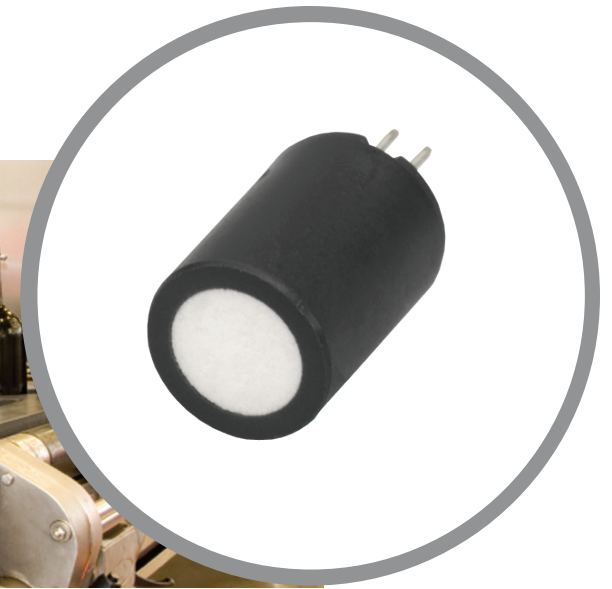


# AT225

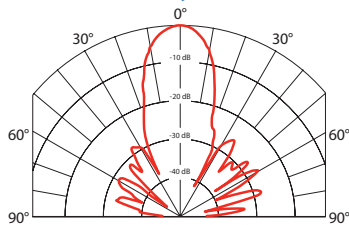


## SPECIFICATIONS

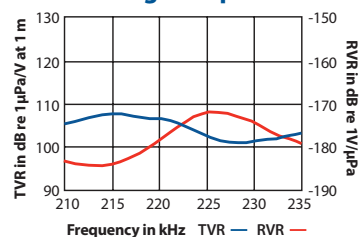
**Best Operating Frequency:** 228 kHz,  $\pm 4\%$   
**Minimum Transmit Sensitivity at Best Transmit Frequency:**  
 101 dB re 1  $\mu$ Pa/V at 1 m  
**Minimum Receive Sensitivity at Best Receive Frequency:** -180 dB re 1V/ $\mu$ Pa  
**Minimum Parallel Resistance:** 400  $\Omega$ ,  $\pm 30\%$   
**Minimum and Maximum Sensing Range\*:** 8 cm to 2.5 m  
**Typical Sensing Range:** 10 cm to 1.5 m  
**Free (1 kHz) Capacitance:** 450 pF,  $\pm 20\%$  pF  
**Beamwidth (@ -3 dB Full Angle):** 15°,  $\pm 2^\circ$   
**Maximum Driving Voltage (2% Duty Cycle Tone Burst):** 500 V<sub>pp</sub>  
**Operating Temperature:** -40°C to 90°C  
**Weight:** 4 g  
**Housing Material:** Glass filled polyester  
**Acoustic Window:** Glass reinforced epoxy

\*Pulse-Echo Mode. Minimum and maximum ranges are best case scenarios. Actual range may vary, depending on drive circuitry and signal processing.

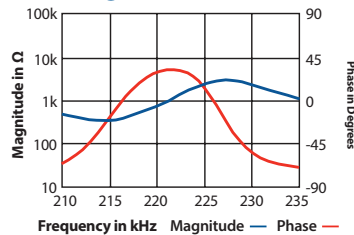
### Directivity Pattern



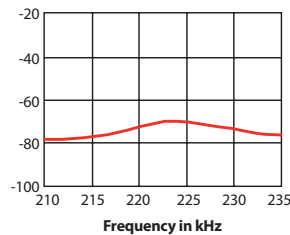
### Transmit & Receive Voltage Response



### Impedance Magnitude & Phase



### Figure of Merit (Sum of TVR & RVR)



## 228 kHz

## AIRDUCER® Ultrasonic Transducer

### Applications

- Level measurement
- Automation control
- Proximity
- Obstacle avoidance
- Robotics
- Flow

### Features

- Rugged sealed construction
- Cylindrical design allows for installation in various applications

### Options

- Optional circuit board mounting pins (as shown in photo above)

### Dimensions

