

ATK200

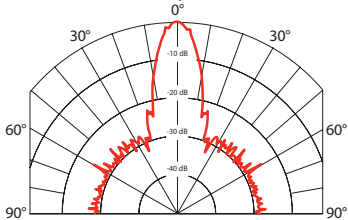


SPECIFICATIONS

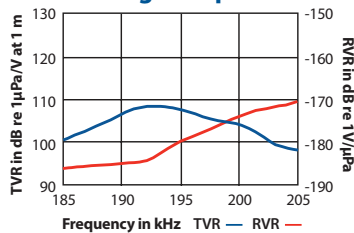
Best Operating Frequency: 200 kHz, $\pm 4\%$
Minimum Transmit Sensitivity at Best Transmit Frequency:
102 dB re $1\mu\text{Pa/V}$ at 1 m
Minimum Receive Sensitivity at Best Receive Frequency: -180 dB re $1\text{V}/\mu\text{Pa}$
Minimum Parallel Resistance: 300 Ω , $\pm 30\%$
Minimum and Maximum Sensing Range*: 10 cm to 3 m
Typical Sensing Range: 12 cm to 2 m
Free (1 kHz) Capacitance: 500 pF, $\pm 20\%$ pF
Beamwidth (@ -3 dB Full Angle): 10° , $\pm 2^\circ$
Maximum Driving Voltage (2% Duty Cycle Tone Burst): 500 V_{pp}
Operating Temperature: -40°C to 60°C
Weight: 6 g
Housing Material: Kynar® 720
Acoustic Window: Kynar® 720

*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

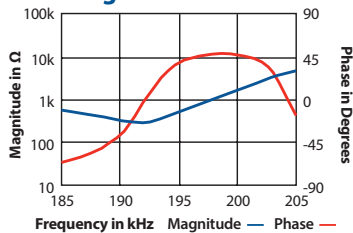
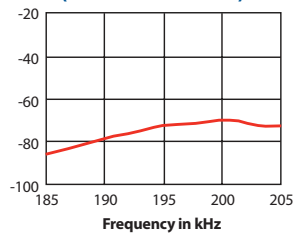


Figure of Merit (Sum of TVR & RVR)



200 kHz

AIRDUCER® Ultrasonic Transducer

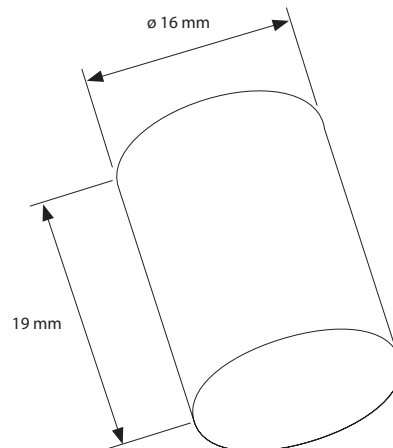
Applications

- Level measurement in chemically aggressive environments
- Automation control
- Food and beverage processing
- Proximity sensing
- Obstacle avoidance
- Flow monitoring

Features

- Rugged one-piece PVDF housing is U.S. FDA compliant
- Cylindrical design allows for installation in various applications

Dimensions



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