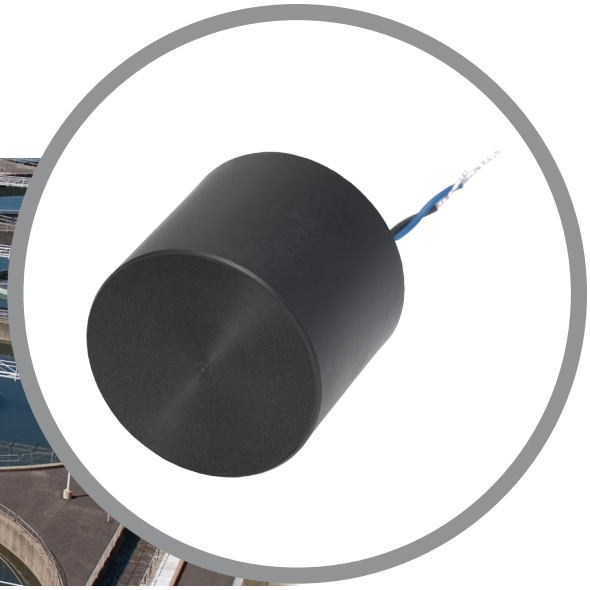
ATK50

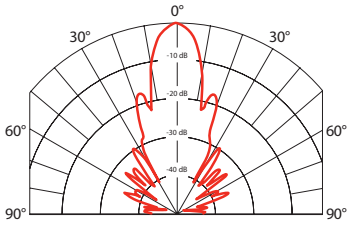


SPECIFICATIONS

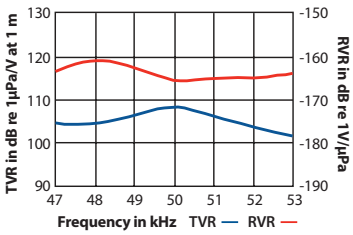
Best Operating Frequency: 50 kHz, ±4%
Minimum Transmit Sensitivity at Best Transmit Frequency: 105 dB re 1µPa/V at 1 m
Minimum Receive Sensitivity at Best Receive Frequency: -170 dB re 1V/µPa
Minimum Parallel Resistance: 350 Ω, ±30%
Minimum and Maximum Sensing Range*: 30 cm to 15 m
Typical Sensing Range: 35 cm to 10 m
Free (1 kHz) Capacitance: 5,000 pF, ±20% pF
Beamwidth (@ -3 dB Full Angle): 10°, ±2°
Maximum Driving Voltage (2% Duty Cycle Tone Burst): 1,000 V_{pp}
Operating Temperature: -40°C to 90°C
Weight: 190 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

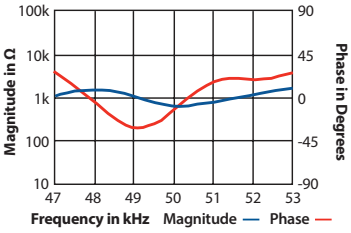
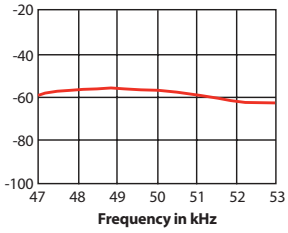


Figure of Merit (Sum of TVR & RVR)



50 kHz

AIRDUCER® Ultrasonic Transducer

Applications

- Level measurement in chemically aggressive environments
- Food and beverage processing
- Proximity sensing
- Obstacle avoidance

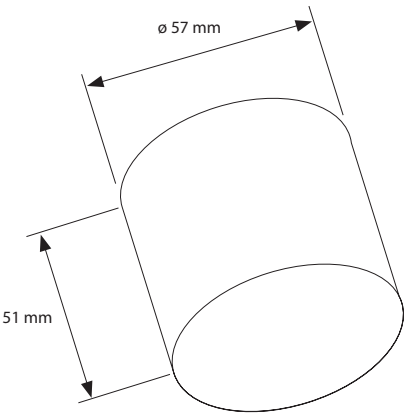
Features

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

Options

- 10 KΩ thermistor available for temperature compensation

Dimensions



ATK50_rP 06/26/18

AIRMAR® TECHNOLOGY CORPORATION

RoHS COMPLIANT

ISO CERTIFIED

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