

SPECIFICATIONS

Best Operating Frequency: 41 kHz, ±4% Minimum Transmit Sensitivity at Best Transmit Frequency: 108 dB, 1µPa/V at 1 m

Minimum Receive Sensitivity at Best Receive Frequency: -175 dB re $1V/\mu Pa$

Minimum Parallel Resistance: 200 Ω , ±30%

Minimum and Maximum Sensing Range*: 30 cm to 20 m

Typical Sensing Range: 35 cm to 15 m

Free (1 kHz) Capacitance: 5,000 pF, ±500 pF

Beamwidth (@ -3 dB Full Angle): 14°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 1,800 V_{pp} Operating Temperature: -40°C to 90°C

Weight: 560 g

Housing Material: PVDF

Acoustic Window: PVDF

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

Directivity Pattern



Impedance Magnitude & Phase



Transmit & Receive Voltage Response



Figure of Merit (Sum of TVR & RVR)







41kHz AIRDUCER® Ultrasonic Transducer

Applications

Level measurement

Features

- Rugged one-piece PVDF housing
- Ideal for chemically aggressive environments
- Housing design will accommodate transceiver and signal processing electronics

Options

- Complete assembly available with standard cable lengths
- 10 KΩ thermistors are optional for temperature compensation
- FM approved

Dimensions



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ARK41 rF 04/13/09

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