SPECIFICATIONS

Best Operating Frequency: 75 kHz, ±4%

Minimum Transmit Sensitivity at Best Transmit Frequency: 110 dB, 1µPa/V at 1 m

Minimum Receive Sensitivity at Best Receive Frequency:

Minimum Parallel Resistance: 150 Ω , ±30%

Minimum and Maximum Sensing Range*: 20 cm to 10 m

Typical Sensing Range: 25 cm to 7 m Free (1 kHz) Capacitance: 1,850 pF, ±200 pF Beamwidth (@ -3 dB Full Angle): 14°, ±2°

Maximum Driving Voltage (2% Duty Cycle Tone Burst): 1,000 V_{DD}

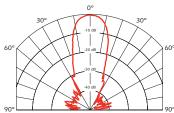
Operating Temperature: -40°C to 90°C

Weight: 250 g

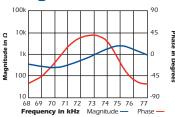
Housing Material: PVDF Acoustic Window: PVDF

*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

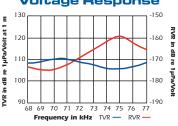
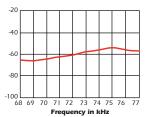


Figure of Merit (Sum of TVR & RVR)



AIRDUCER® Ultrasonic Transducer

Applications

Level measurement in caustic environments

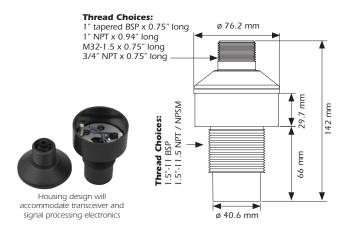
Features

- Rugged one-piece PVDF housing
- Resistant to chemically aggressive environments
- Cylindrical design allows for installation in various applications

Options

- Nut—1.5" BSP thread
- Complete assembly available with standard cable
- 10 KΩ thermistors are optional for temperature compensation
- FM approved

Dimensions







©Airmar Technology Corporation

ARK75 THD rF 04/13/09

As Airmar constantly improves its products, all specifications are subject to change without notice. All specifications typical at 22°C. Factory Mutual approved models suitable for: Class I, Division I, Hazardous Locations. AIRDUCER® is a registered trademark of Airmar Technology Corporation. Other company or product names mentioned in this document may be trademarks or registered trademarks of their respective companies, which are not FAXII0755*83876182 E-MAIL: szss20@163.com

TECHNOLOGY CORPORATION