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:

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_{DD}

Operating Temperature: -40°C to 90°C

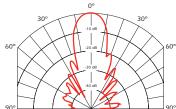
Weight: 560 g

Housing Material: PVDF Acoustic Window: PVDF

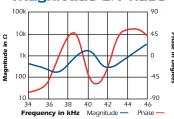
*Pulse-Echo Mode. Minimum and maximum ranges are best case scenarios. Actual range may vary,

depending on drive circuitry and signal processing.

Directivity Pattern



Impedance Magnitude & Phase



Transmit & Receive Voltage Response

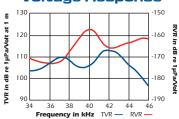
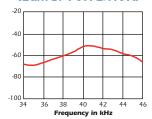


Figure of Merit (Sum of TVR & RVR)



AIRDUCER® Ultrasonic Transducer

Applications

Level measurement

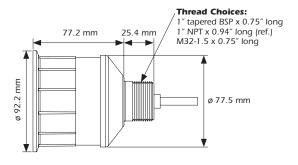
Features

- 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
- 10 KΩ thermistors are optional for temperature compensation
- FM approved

Dimensions







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