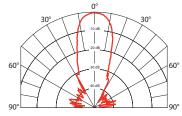
ARK75-THD



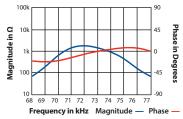
Best Operating Frequency: 75 kHz, $\pm 4\%$ Minimum Transmit Sensitivity at Best Transmit Frequency: 106 dB re 1µPa/V at 1 m Minimum Receive Sensitivity at Best Receive Frequency: -165 dB re 1V/µPa Minimum Parallel Resistance: 150 Ω , $\pm 30\%$ Minimum and Maximum Sensing Range*: 20 cm to 10 m Typical Sensing Range: 25 cm to 7 m Free (1 kHz) Capacitance: 1,850 pF, $\pm 20\%$ pF Beamwidth (@ -3 dB Full Angle): 14°, $\pm 2°$ Maximum Driving Voltage (2% Duty Cycle Tone Burst): 1,000 V_{pp} Operating Temperature: -40°C to 90°C Weight: 250 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.

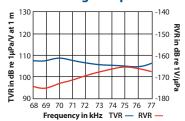
Directivity Pattern



Impedance Magnitude & Phase

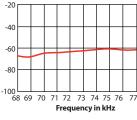


Transmit & Receive Voltage Response









75 kHz AIRDUCER[°] Ultrasonic Transducer

Applications

APPROVED

- Level measurement in chemically aggressive environments
- Food and beverage processing
- Flow monitoring

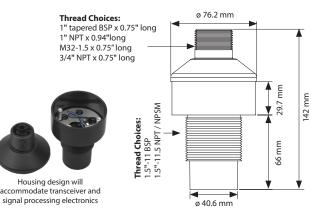
Features

- Rugged one-piece PVDF housing is U.S. FDA compliant
- Threaded design allows for installation in various applications
- Standard internal shielding
- 8 mm M3 PCB standoffs

Options

- Nut—1.5" BSP thread
- Complete assembly available with standard cable lengths
- 10 KΩ thermistor available for temperature compensation
- FM approved
- 12 mm extension sleeve
- Mounting caps available in BSP, NPT, or M32 threads

Dimensions



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ARK75_THD_rQ 06/26/18

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