ARK120-THD

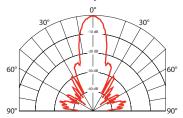


SPECIFICATIONS

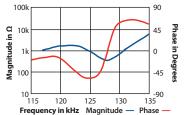
Best Operating Frequency: 125 kHz, ±4% Minimum Transmit Sensitivity at Best Transmit Frequency: 102 dB re 1µPa/V at 1 m Minimum Receive Sensitivity at Best Receive Frequency: -172 dB re 1V/µPa **Minimum Parallel Resistance:** 500 Ω , ±30% Minimum and Maximum Sensing Range*: 15 cm to 5 m Typical Sensing Range: 20 cm to 3 m Free (1 kHz) Capacitance: 1,000 pF, ±20% pF Beamwidth (@ -3 dB Full Angle): 12°, ±2° Maximum Driving Voltage (2% Duty Cycle Tone Burst): 800 V 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







Transmit & Receive Voltage Response

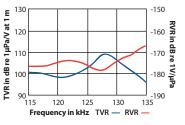
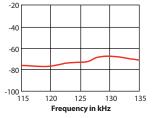


Figure of Merit (Sum of TVR & RVR)



125 kHz AIRDUCER[®] Ultrasonic Transducer

Applications

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

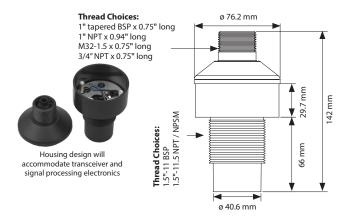
Features

- 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
- 12 mm extension sleeve

Dimensions



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ARK120 THD rE 6/26/18

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