

Advanced Ultrasonic Downhole Transducers & Materials...

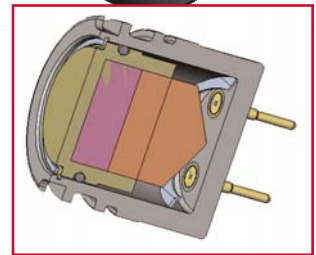
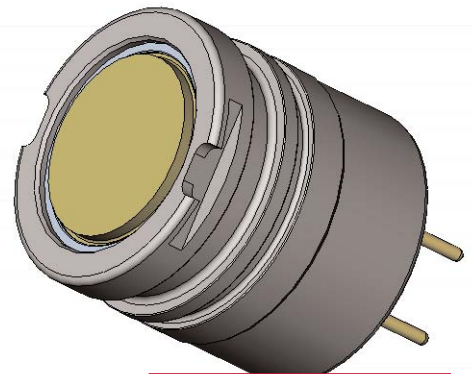
Proven in Oil Field & Hostile Environments

Piezo Technologies' leading-edge R&D has led to many unique Ultrasonic Downhole Solutions. Our piezo materials provide superior performance for imaging, NDT, sensing, and more. Our custom-engineered transducers are designed for Extremely Hostile Environments. We can meet the exact requirements of your downhole technology needs... without the compromises.

Piezo Technologies has a long history of providing reliable products for the oil & gas exploration and maintenance industry. Our products can be used in the most hostile environments on earth. Environments that are highly corrosive, abrasive, hot (up to 392°F or 200°C) and pressurized (20,000+ psi). Piezo Technologies' ultrasonic downhole transducers have continually met the challenge of operating under the most extreme conditions.

Piezo Technologies develops and manufactures semi-custom, modular, and pure custom (no off-the-shelf) ultrasonic transducer products. Our vast database of past projects provides a base for developing many new products as semi-custom or modular devices. This reduces both cost and turnaround time, while still providing a high quality, unique product. We also specialize in developing pure custom devices. Our technical experts are available to discuss your application and recommend an ultrasonic transducer product that will satisfy your specific requirements.

Contact us to learn more about how we can enhance the performance of your current equipment, or help improve your next generation products.



Proven in Oil Field & Hostile Environments

- 20+ Years of Success
- The Industry Leaders' Resource
- Durable, Reliable, Consistent
- -60°C to +200°C
- 20,000+ psi



PDS 15489 REV 1106

PIEZO TECHNOLOGIES HEADQUARTERS

8431 Georgetown Rd., Suite 300 • Indianapolis, IN 46268 • Tel: 317-876-4670
Fax: 317-876-4681 • Email: PiezoInfo@PiezoTechnologies.com • www.PiezoTechnologies.com

Downhole Transducer General Specifications

- Frequency Range: audible - 2Mhz
- Active Element Diameter: 0.5" - 3"
- Operating Pressure: >20,000 psi (with compensation)
- Drive Voltage: 100 - 300Vpp
- Drive Waveforms: pulse, continuous wave, burst wave
- Form Factor: single or multi-element
- Housing Material: Stainless steel, Titanium, PEI, PEEK
- Proven Applications:
 - Seismic Logging
 - Ultrasonic Logging (televIEWing)
 - Active Bore Diameter Measurement
 - Cement Bond Evaluation
 - Mud Density
 - Casing Inspection
 - Downhole Flow
 - Perforation Inspection
 - Casing De-scaling
 - Formation Flow Enhancement



All in-house assembly with strict quality control and testing.



Our new, expanded facility allows for more collaboration between divisions, when required, and expanded production and assembly capacity and capabilities.



PIEZO TECHNOLOGIES HEADQUARTERS

8431 Georgetown Rd., Suite 300 • Indianapolis, IN 46268 • Tel: 317-876-4670
 Fax: 317-876-4681 • Email: PiezoInfo@PiezoTechnologies.com • www.PiezoTechnologies.com