

Pressure Tolerant Electronics (PTEs)

Over the years, Phoenix has studied the effects of pressure on hundreds of electronic components and built a database which we draw upon for new pressure tolerant projects.

Phoenix realized the benefits of PTEs in 1999 and has a history of using them starting with Remora II during the successful search for the lost Israeli submarine DAKAR in the Mediterranean Sea. We have since used PTEs in many projects, including our fleet of xBot vehicles and 4 deep-water work class ROVs, all of which are rated to 6,000 meters.

PTEs have many advantages over the conventional atmospheric pressure housing, including allowing for:

- Designing systems capable of operations to full ocean depth without expensive atmospheric housings and high-pressure electrical connectors
- Improved heat dissipation
- No implodable volumes
- Flexibility in housing material, shape, and design
- Reduced mean time to repair from faster access and reassembly of the housing

Contact us to learn more

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