

Power Puck®



Plug-and-play renewable thermoelectric energy for wireless sensor networks.

Renewable Power for Wireless Sensors

Power Pucks are complete renewable energy devices that power wireless sensors for over a decade. Designed for demanding industrial applications, sensors can be powered from temperature differences that already exist on surfaces of equipment such as pipes, pumps, fans, and motors. Internal electronics store and regulate the renewable energy and deliver regulated voltage to seamlessly power a wide variety of transceivers and sensors.

Installations are quick. Simply affix Power Pucks to warm surfaces for decades of renewable energy. A standard magnetic mounting allows for quick installations with no special tools; contact us for other mounting options. Industrial grade connections provide flexibility for use with transceivers and sensors.

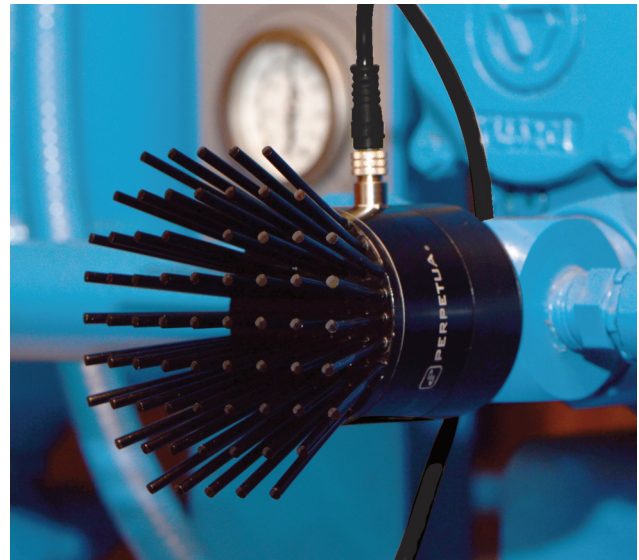
Power Pucks are designed as primary energy sources that operate within the same voltage range of common Lithium-Thionyl Chloride and other battery solutions. These ultra long-life, self-charging systems eliminate battery replacements, allow more data to be collected through increased sample frequencies, and protect the environment by eliminating the disposal of batteries.

Key benefits

- Full product solution (no development needed)
- Industrial strength packaging for harsh environments
- Fast installation, typically less than 30 seconds
- Very long operating life, typically >15 years
- Product options available for high power requirements or for operating in an environment where a constant heat source isn't always available.

Innovation without compromise

In factory or refinery environments the heat from equipment and pipes, for example, generally results in temperature differences that can generate surplus energy to operate mesh-based wireless sensor



applications. Long-life Power Pucks provide renewable energy for leading brands of wireless sensors commonly found in condition monitoring applications, including but not limited to temperature, pressure, vibration and level.

Award winning technology

Based on over a decade of applied developments, Perpetua's energy harvesting total solutions were first released to industry in 2009 and have since won several awards, including the prestigious *R&D 100* Award as one of the 100 most technically innovative products developed throughout the world.



With off-the-shelf & custom solutions

Perpetua has developed complete and simple-to-use Power Puck solutions covering specific market demands. We also specialize in rapid customizing of full product solutions to fit particular user needs. Please feel free to contact us to discuss your applications.



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