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Perpetuum PMG Products Earn CSA Certification

CHICAGO – April 15, 2010 – Perpetuum Ltd, a global leader in vibration energy harvesting, has earned CSA certification for its [PMG 17](#) energy harvesting products. The PMG 17 already carries ATEX Zone 0 and IECEx certifications.



CSA International certification is an assurance that the products carrying the mark have been independently tested and certified to meet recognized standards for safety, performance, and quality.

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The flagship of the growing Perpetuum PMG series of products, the PMG17 is currently delivering power to wireless sensor nodes in a variety of monitoring and sensing applications. It is designed for use on AC powered machinery to harvest common "twice-line-frequency" vibration. Even with as little as 25mg (RMS) vibration within a 2Hz bandwidth, it produces a minimum 0.5mW, enough to power an Industrial Wireless Sensor Node. Greater vibrations will produce even more power. The PMG17 is reliable and robust and will operate in a variety of industrial environments. It is easy to install (no shutdown required), in any orientation, and maintenance free.

"CSA certification gives our customers the assurance that Perpetuum products meet stringent safety and performance standards," said Roy Freeland, Perpetuum Ltd CEO. "We are confident of our quality, and now an internationally certified testing organization stands behind that quality, as well."

Perpetuum's products convert unused mechanical vibration into usable electrical energy to power wireless sensor systems used to monitor critical systems. The energy harvesters provide a long-term power solution for these sensor systems, providing the ability for continuous autonomous monitoring while reducing the cost of cabling and installation.

CSA certification is pending for Perpetuum's [Free-Standing Harvesters](#) (FSH) which offer a best-in-class low power integrated solution encompassing the PMG Vibration Energy Harvesting technology along with a selectable suit of energy charge, storage, and management options.

The PMG line of vibration energy harvesting products from Perpetuum Ltd also includes the [PMG27](#), designed for health and usage monitoring systems on rotary wing aircrafts; and the [PMG37](#) which is optimized for use in the transportation industry, from on-highway trucks to rail cars and earth moving equipment.

Perpetuum also produces a [Wireless Sensor Node Assessment Kit](#) (wSNAK), a field-deployable demonstration system designed to demonstrate to OEMs and end users the

significant advantages and simplicity of condition monitoring systems powered by vibration energy harvesting. The wSNAK is easily and quickly installed and open source, which can accelerate OEM product development by up to 12 months as well as reduce development costs by tens of thousands of dollars.

Visit Perpetuum at Sensors Expo: See the PMG products as well as the FSH and wSNAK at booth #1026 in the Energy Harvesting Pavilion at [Sensors Expo](#) in Rosemont, Illinois June 8 – 9.

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About Perpetuum:

UK-based Perpetuum Ltd is a world leader in vibration energy harvesting, producing the first commercially available vibration energy harvester for industry, the PMG17. Using normal vibration created by machinery as a source of energy, the PMG17 is an enabling technology for fast-growing wireless sensor node applications. Perpetuum's innovative power source enables continuous online monitoring for proactive asset management, helping organizations strive toward operational excellence. For more information, visit www.perpetuum.com or email info@perpetuum.com.