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Vibration Energy-Harvesting is Now Available for Power Industries

June 3, 2008 – Perpetuum will be exhibiting the innovative PMG17 vibration energy-harvesting microgenerator on Stand 1/C27 at Power-Gen Europe. This is the first time Perpetuum has brought the microgenerator to this event and visitors will be able to see a working demonstration, showing the transmission of motor condition and temperature data over wireless protocols, such as 802.15.4.

Perpetuum, the world leader in practical, vibration energy-harvesting, has recognised the potential of this technology in condition monitoring applications, to increase the efficiency of plant operations and help change the way assets are managed. Perpetuum is working with operators to incorporate this battery-free power source into wireless sensor nodes, enabling continuous on-line monitoring of plant assets, and helping to reduce unplanned down-time and maintenance costs.

The power of the PMG17 is being viewed as a preferred power source for wireless sensor applications. It converts kinetic energy from vibration of equipment running at mains frequency (50 or 60Hz) into electrical energy and can generate up to 50mW when attached to a surface exhibiting a minimum vibration magnitude of 0.025g. This is enough to power sensors, micro processors and RF systems, enabling critical performance data to be transmitted over wireless protocols.

“The PMG17 is already the “battery free” power source behind many wireless sensor nodes,” says Rich Mangan, Director, Perpetuum. “These nodes enable the continuous monitoring and control of plant machinery. Plant performance and health can now be analyzed and acted upon by operations staff and as a result, outages and unplanned machine downtime can be minimized.”

ATEX and IECEx certifications for the PMG17 product range allow the device to be marked for intrinsic safety and dust ingress protection in zones 0 and 20. Using this version of the PMG17 can open access to remote and hazardous areas, helping to improve safety implications for staff and enabling machinery in these areas to be monitored, possibly more frequently than before.

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About Perpetuum:

UK-based Perpetuum Ltd is the 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.co.uk or email info@perpetuum.com.