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## **HITACHI INTRODUCES MICRODRIVE PUMP SLEEP MODE FUNCTIONALITY**

TARRYTOWN, New York, September 2, 2008 -- Hitachi America, Ltd., Industrial Systems Division, today announced the availability of Pump Sleep Mode functionality in its X200 and SJ200 series microdrives. The functionality is implemented utilizing only the inverter's built-in PID control, logic and timing functions as a basis. Together with parameter settings, external jumper wiring is all that is required to realize the sleep mode operation.

Standard PID control may, depending on system demand, allow a pump to operate at undesirably low speeds for prolonged periods of time, which can cause mechanical issues with certain pump types. In general, it is a wasteful use of energy, since most pumps do not generate significant flow or head at low speeds. A means is needed to stop the pump when no pumping is actually taking place. The term "sleep mode" is used to describe such a means.

The implementation requires no additional hardware beyond what is required for standard PID operation. The simple set-up and wiring is described in an Application Note (AN080717-1) which is available to view or download in the Technical Support Library area of Hitachi America's web site: [www.hitachi.us/inverters](http://www.hitachi.us/inverters).

For more information, please contact [www.hitachi.us/inverters](http://www.hitachi.us/inverters) or [inverterinfo@hal.hitachi.com](mailto:inverterinfo@hal.hitachi.com).

Hitachi America, Ltd., Industrial Systems Division supplies a broad range of Industrial Infrastructure products and services. The division supplies markets sophisticated electrical and electronic industrial equipment and components for application in pharmaceutical plants, food & beverage processing, steel making, mass transit systems, chemical plants, and other manufacturing facilities.

Hitachi America, Ltd., a subsidiary of Hitachi, Ltd., markets and manufactures a broad range of electronics, computer systems and products, and consumer electronics, and provides industrial equipment and services throughout North America. For more information, visit <http://www.hitachi.us>.

Hitachi, Ltd., (NYSE: HIT / TSE: 6501) headquartered in Tokyo, Japan, is a leading global electronics company with approximately 390,000 employees worldwide. Fiscal 2007 (ended March 31, 2008) consolidated revenues totaled 11,226 billion yen (\$112.2 billion). The company offers a wide range of systems, products and services in market sectors including information systems, electronic devices, power and industrial systems, consumer products, materials and financial services. For more information on Hitachi, please visit the company's website at [www.hitachi.com](http://www.hitachi.com).

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