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NK TECHNOLOGIES' POWER MONITORING TRANSDUCERS PROVIDE AN INEXPENSIVE SOLUTION TO COSTLY INTERUPTIONS IN PROCESSES

SAN JOSE, CA, September 2010 – NK Technologies' APS series power transducers for process control monitor the electrical power consumption of equipment and provide valuable information about the condition of the machinery and the process. A significant increase in power use can indicate that maintenance is required, while a decline in power consumption may require immediate attention before the issue can cause significant damage to process, product or equipment.

Bearing failures, blocked pump intake or discharge, phase loss and voltage sags are all problems that can be discovered by monitoring the changes in power consumption. In monitoring inductive loads (motors and transformers) power factor should be taken into consideration. In applications where a load is not constant or the motor is over sized, the power factor improves as the load increases. The current draw of a standard squirrel cage motor does not rise in proportion to the wattage until the load is around half of the nameplate ratings. In these applications, monitoring of current only will not be as accurate as sampling power use.

The APS series is well suited for monitoring motor driven loads, or any load where the current is balanced across each phase. The sensor is placed over one conductor, and the line voltage is connected to two terminals on the transducers. The loop powered, 4-20 mA output signal is scaled at the factory to represent the demand in watts, based on the primary voltage and the current through the sensor opening. The APS products are suitable for all single-phase loads, and balanced three phase loads, with output accurately representing the wattage used. The product features simple two-wire loop powered connection to a PLC, data logger or panel meter.

All NK Technologies' products are made in the USA and are backed by a 5-year warranty.

About NK Technologies

Headquartered in the Silicon Valley, NK Technologies is a leading manufacturer of current, voltage, ground fault, and power monitoring products for industrial automation, HVAC and energy-related industries. Primary applications include monitoring and control of automated systems as well as equipment protection. Established in 1982, the company has built a reputation for quality products which are easy to install and cost-effective to use. For more information visit www.nktechnologies.com.

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