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NK TECHNOLOGIES' POWER MONITORING TRANSDUCERS ARE A COST-EFFECTIVE WAY TO MONITOR "TRUE" ACTIVE POWER

SAN JOSE, CA, November 2010 – NK Technologies' APT series power transducers are ideal for monitoring energy usage because they sense "true" active power and are a cost-effective way to measure kW on 1Ø or 3 Ø applications up to 600VAC. Powered by 24V or 120V supply, the APT provides a fully isolated 4–20mA, 0-5VDC, or 0-10VDC proportional output making it compatible with most supervisory controllers, panel meters and data loggers.

Using a power transducer to monitor power for energy usage or cost allocation provides more useful information than monitoring current because utility companies bill based on power consumption rather than current. Adding a power transducer to monitor one specific area of a plant or process can help management determine the energy costs for that particular operation.

Power transducers are also used in processes where the demand for power exceeds the power supply system capacity. When the load increases above a certain point, the power transducer output signal can be used to trigger load-shedding events. Power transducers are also ideal for monitoring inductive loads in motors or transformers that may be fully loaded occasionally and only lightly loaded other times. With loads such as these, the power factor is poor when the load is light and better when the load increases.

Other applications where power monitoring can be used include monitoring machine tool finishing operations, sensing brush entanglements in carwash systems, detecting dry run or blockages on pumping systems; monitoring phase-angle fired electrical heaters and monitoring general power usage and tripping of electrical loads.

APT power transducers accept standard 5A or 0-333mV current transformers and are housed in a compact, DIN-compatible enclosure making them extremely easy to install. Simply connect the monitored circuit voltage, external power (120 or 24 volts AC), and current transformers to the transducer. The output signal is scaled to represent the power consumption on the circuit being monitored. 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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