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Measure Three Phase Wattage Consumption with the New APT Power Transducer from NK Technologies

The APT produces an industry standard analog signal proportional to the real power used

SAN JOSE, CA – [NK Technologies](#) introduces [APT Series Power Transducers](#). The APT measures three phases of current and voltage and produces an industry standard analog signal proportional to the watts used. The monitor uses current transformers to measure the amperes, and the line voltage connects directly to the transducer, up to 600 VAC. By comparing the instantaneous current flow with the circuit voltage, the power factor, whether leading or lagging, allows the APT transducer to produce a signal directly proportional to the wattage used. The APT power transducer can be configured to accept 5 A secondary current transformers, or NK Technologies' [ProteCT™](#) low voltage output sensors. Either type of current sensing will produce an accurate output signal to help identify areas of excessive energy consumption and allow intervention to reduce demand.

“In many applications, monitoring power usage produces a more accurate result than measuring current use alone,” explains Philip Gregory, President, NK Technologies. “This accuracy makes APT Power Transducers idea for many applications including plant energy management, conveyors and pump monitoring. It’s been used to measure the power usage of a single piece of equipment, an area of a plant, or the entire facility. It can detect conveyor jams and overloads, and check that belts are loaded properly. The APT can also detect dry run from clogged pump intake or discharge lines and monitor impeller cavitation and bearing wear.”

APT Power Transducers are externally powered and offer 4-20 mA, 0-5 VDC or 0-10 VDC output. They are housed in a compact DIN mounted case with a low profile that reduces the need for large cabinet depth requirements. Their finger safe terminals are clearly labeled for quick installation.

ABOUT NK TECHNOLOGIES

Founded in 1982, NK Technologies designed the first the low-cost solid-state current sensing technology that underlies the industry today.

Today NK Technologies is a leading provider of current sensing, ground fault detection and power monitoring products to the [industrial and factory automation markets](#), with a product portfolio that includes more than 1300 models to satisfy a wide range of specific application needs. As the needs of these markets change, NK Technologies is well-positioned to respond with sophisticated new product designs and improved product functionality necessary to meet those applications.

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