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Seamlessly Convert a CT Signal to a Standard 4-20mA Output with New CTC Signal Converters from NK Technologies

Provides simple solution for monitoring current in applications where one-piece sensors are impractical or impossible to install

SAN JOSE, CA – [NK Technologies](#) introduces [CTC Series Signal Converters](#). With the CTC series users can utilize an existing standard 5 amp secondary CT or low voltage (0.333 VAC) ProteCT™ current transformer with non-contact ranges as low as 0-5 amps over a conductor to produce a standard 4-20mA two-wire, loop-powered signal. With DIN rail mounting and a 24 VDC loop-powered supply, the CTC series provides simple snap-in installation that requires no calibration because the primary current transformer ratio provides the scaling required without any installer intervention.

“The CTC makes life easier for users who need to monitor current in applications where it is impossible to install a one-piece sensor,” says Philip Gregory, President, NK Technologies. “And because the sensor output is industry standard, two and one piece solutions can be mixed in the same controller cabinet.”

In some applications, such as monitoring a high voltage system, using a two-piece solution consisting of a current transformer and separate signal converter works better than using a one-piece sensor. A two-piece solution is also a better choice when the system is supplied with bus bars, making installation of a standard NK Technologies one piece current sensor over the conductor extremely difficult or even impossible.

“In a two-piece solution the secondary of a standard 5 amp current transformer is connected to the input terminals of the CTC device, the CTC secondary is connected to a nominal 24 volt DC supply and then to the PLC or panel meter input. The converter then produces 4mA when there is no current through the primary CT, and 20 mA when the CT has full range current present,” explains Mr. Gregory.

[Test and evaluation units](#) are available to OEMs at no cost.

Visit the [Engineering Resources](#) section of NK Technologies website for access to numerous application notes, and technology [white paper](#) on current sensing technology.

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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