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In the News

“...the first of its type produced in the world.”

NVE [angle sensors](#) were featured in two-page [article](#) in a recent issue of the German trade journal *Industrielle Automation*.

The article is titled “So misst man Winkel heute” (“How One Measures Angle Today”).

[Download Article >](#)

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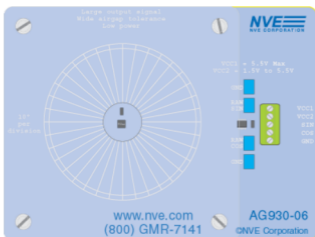
Keeping with this month's angle sensor theme, The Byrds' classic “Turn Turn Turn” is our current phone system background music.

Angle Sensor Evaluation Kit

Ultraprecise angle sensing is demonstrated with the new Angle Sensor Evaluation Kit. The kit includes an evaluation circuit board with an AAT001-10E Angle Sensor and a unity-gain buffer amplifier (see the reference design below).

A split-pole magnet and a plastic magnet locating fixture are included in the kit. An angular reticle on the circuit board aids in characterizing output versus angle.

Two sinusoidal outputs 90 degrees out of phase provide quadrature direction information. The circuit board can be powered with a 1.5 V to 5.5 V power supply.



Angle Sensor Evaluation Kit

[AAT001 Angle Sensors](#) use extremely high output spintronic Tunneling Magnetoresistors, with a maximum angular measurement error of a remarkable 0.5 degrees in a fixed-bias magnet configuration.

Other AAT001 features include:

- Unamplified output of at least 130 mV per power supply volt
- Functional airgap range of 2-3 millimeters
- Microwatt power consumption for battery applications

[Download Kit Manual >](#)

Buy Online
\$9.95 shipping

Upcoming Exhibition

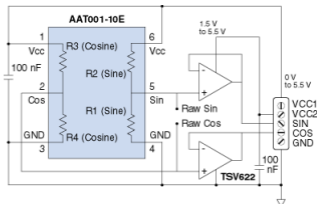
Vienna-tec [New NVE CAN transceivers](#) and other IsoLoop [isolated bus transceivers](#) will be featured by Hy-Line Power Components at *Vienna Tec*, October 9 to 12 at *Messe Wien* in Vienna, Austria.

Reference Design

Buffered Angle Sensing

The high impedance of the AAT001 Angle Sensor (typically 1.25 megohms per resistor) means extremely low power consumption and make them ideal for battery-powered applications.

The sensors can be directly connected to high-impedance analog front ends or other circuitry, and buffer circuitry can be added if necessary for lower impedance circuitry:



AAT001 Buffer Reference Circuit

The op amp minimum supply voltage is 1.5 V, while the AAT001 sensor has no minimum. Sensitivity increases proportionately to the sensor supply voltage, as does current consumption.

“Turn” to this [technical video](#) for more information:



Video: Angle Sensing

[Email the Sensor Applications Desk >](#)