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TMR Patent

NVE was recently granted U.S. patent number 9,322,889 titled "[Low Hysteresis High Sensitivity Magnetic Field Sensor](#)" related to TMR sensors.

See [story at right](#) for more information about one of our state-of-the-art TMR products.

New YouTube Videos

[Ridiculously Low Power Angle Sensor](#)

[AAT001 Sensor+Test Demo](#)

[High-Sensitivity Magnetic Sensor Demo for 2016 Sensor+Test Fair](#)

[Rotation Sensor Product Preview](#)

Independence Day



NVE will be closed Monday, July 4 for the Independence Day holiday.

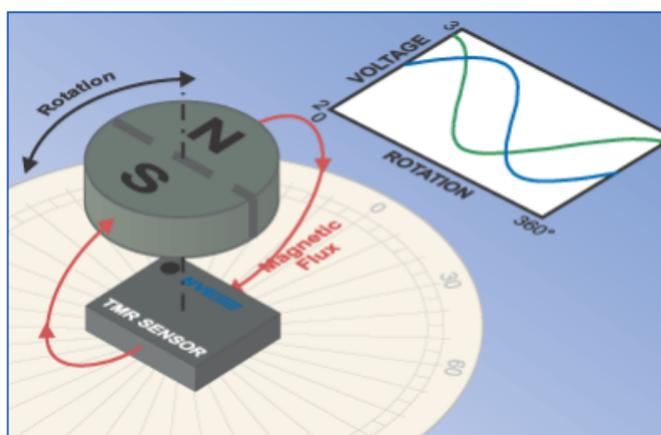
Independence Day holiday.



Ridiculously Low-Power Angle Sensor

6 MΩ Device Resistance Angle Sensor

NVE has taken low power to unprecedented levels with the AAT009-10E Ultra-Ultra-Low Power Tunneling Magnetoresistance (TMR) Angle Sensor.



The New AAT009-10E Ultra-Ultra-Low Power Angle Sensor

AAT sensors measure angular position based on rotating magnetic fields. Typical applications include rotary encoders, and motor shaft position sensors, and Internet-of-Things end nodes.

Key AAT009 features include:

- 6 MΩ typical device resistance for ultralow power consumption
- 0.5° maximum angular measurement error (fixed bias)
- 200 mV/V peak-to-peak output signals
- Wide magnet airgap tolerance
- Sine and cosine outputs for direction detection
- Ultraminiature 2.5 mm x 2.5 mm x 0.8 mm TDFN6

The AAT009 can run years on a single button cell. The sensors detect and maintain absolute position information, and immediately power up in the correct position after power is restored.

There are now three AAT-Series sensors:

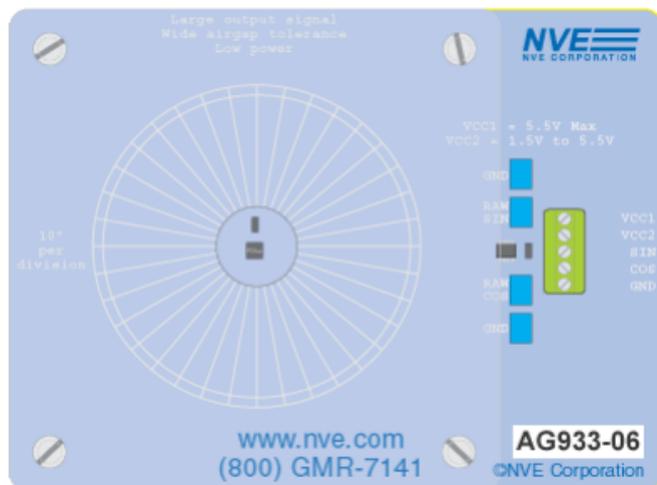
Part Number	Typ. Device Resistance	Features
AAT001	1.25 MΩ	Ultra-low power
AAT003	40 kΩ	Ideal for interface to microcontrollers
AAT009	6 MΩ	Ultra-ultra-low power

All three part types are in stock and available for immediate delivery.

Buy Online
\$9.95 shipping

Evaluation Kits

[Evaluation kits](#) are available for each of the AAT-Series sensors:



Buy Online
\$9.95 shipping

Demonstrations

Here's a demo of AAT sensors, including the new version, powered by small fruits:

