

In This Issue

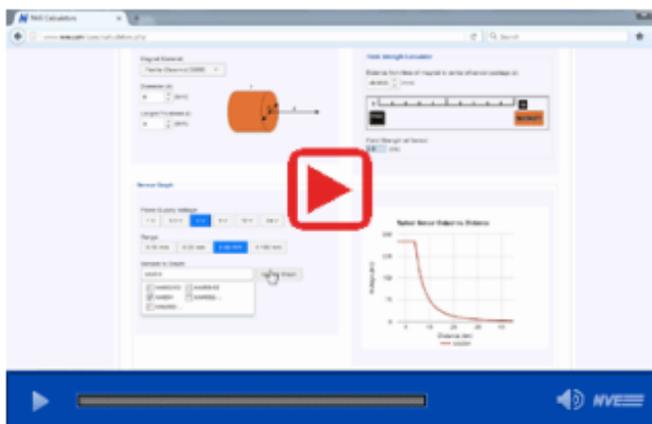
- [Current Sensing](#)
- [Embedded World](#)
- [Intermag](#)
- [April 1 Product](#)

Foolproof Website Apps

A new set of [Web apps](#) on NVE's award-winning Website lets you simulate the outputs of NVE sensors with different magnets or current-carrying traces at various distances.

The handy simulations accommodate cylindrical, disk, or rectangular magnets, or a variety of current-carrying traces. Analog, digital, and Nanopower sensors are supported.

The simple, intuitive apps do the complex math for you. This [video](#) demonstrates their remarkable accuracy compared to experimental data:



Quick Links

- [Sensor Selector Guide](#)
- [Isolator Selector Guide](#)
- [Online Store](#)
- [Contact Us](#)
- [Twitter](#)
- [YouTube](#)

Datasheet Updates

- [AA/AB-Series Analog sensor datasheet](#)
Updates; new reference circuits
- [AD-Series Digital sensor datasheet](#)
Updates; new reference circuits
- [GT-Series gear-tooth sensor datasheet](#)
Updates; improved graphics and new reference circuits

Recent Exhibitions

 **embedded world** Exhibition & Conference
... It's a smarter world
Distributor HY-LINE Power Components featured NVE's unique 6 kV [V-Series Isolators](#) at the recent **Embedded World** exhibition in Nürnberg, Germany.

Upcoming Conferences

INTERMAG Dublin 2017
24th-28th April 2017
Ireland:
NVE researchers are presenting two invited papers at the upcoming Intermag Conference in

["Bio-Applications of Giant Magnetoresistance and Tunneling Magnetoresistance Phenomena: In-Flow Magnetic Biomarker Detection"](#)

and:

["Spintronic Sensors in Transportation"](#)

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New YouTube Videos

-  [Magnet distance Web application](#)
-  [Current sensing Web application](#)
-  [AAT / Arduino Chrome browser demo](#)
-  [Nanopower Sensor Demonstrator](#)
-  [ADT-Series TMR Rotation Sensors](#)

Earth Day April 22

NVE is committed to the safety, health, and protection of people and the environment.

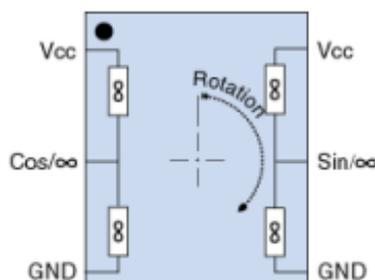
For more information, visit our [Environmental and Social Governance page](#).

Infinite Resistance Angle Sensor

 April 1—You may know about NVE's unique family of Tunneling Magnetoresistance [angle sensors](#). Last year we introduced a six megohm version with less than 400 nW power consumption on a single 1.5-volt battery. We even demonstrated the part by running it with [the current from a currant](#).

We figured the power couldn't get any lower.

But our engineers outdid themselves. This April 1, we're introducing **AAT[∞]** infinite resistance angle sensors:



The AAT[∞] takes angle sensing to infinity and beyond.

AAT[∞] features include:

- Infinite resistance, so the sensors will run from now to the end of time on any power source. Or no power source.
- No output signal. Or maybe there is one, but since the output impedance is infinite, the signal goes away if you try to measure it. And if there was an output, it would be $V_{cc} \times (\infty/\infty)$, which is indeterminate. In any case, having no output eliminates the need for subsequent circuitry.
- No temperature rise, simplifying thermal management.

No Package Options

Because even NVE's [ultrahigh isolation packages](#) are a tiny bit conductive, the **AAT[∞]** isn't packaged. For the same reason, it has no die either.

Pricing

There are two quantity prices: infinite price at zero quantity and zero price at infinite quantity.