

In This Issue

[High-Sensitivity TMR Sensor](#)

[Tradeshows](#)

Quick Links

[Sensor Selector Guide](#)

[Isolator Selector Guide](#)

[Online Store](#)

[Contact Us](#)

[Twitter](#)

[YouTube](#)

New on YouTube

[ADC Using an SPI isolator with Integrated DC-DC Converter](#)

[Ultraprecise TMR Gear-Tooth Sensors](#)

[GMR Switches for Intrusion Detection](#)

[NVE Isolators Smoke the Competition](#)

Awards and Recognition

NVE Named to [Forbes 2022 America's Best Small Companies](#)

Holidays

NVE will be closed Friday, December 24 and Friday, December 31.

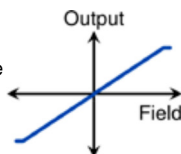


NVE's Most Sensitive Sensor Ever

The new ALT023 is a version of the popular ALT025 Tunneling Magnetoresistance (TMR) analog magnetometer with ten times the sensitivity. The ALT023 can precisely measure fields from a few microtesla to 1 millitesla.

Bipolar Output

The differential bridge outputs are bipolar, meaning positive for a positive field and negative for an opposite field polarity.



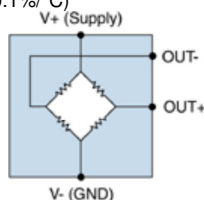
A unique bipolar transfer function

Specifications

- High sensitivity (200 mV/V typical full-scale)
- Flexible 0 to 5.5 V supply (no minimum)
- 20 kilohm device resistance for low power
- ± 1 mT linear range
- High linearity (<1 % of full-scale)
- Ultra-low output temperature coefficient ($\pm 0.1\%/^{\circ}\text{C}$)
- Up to 300 kHz bandwidth
- -40 to 125°C operating range
- 2.5×2.5 mm TDFN package

Applications

- Non-contact current sensing
- Motion, speed, and position control
- Mechatronics and robotics
- Geomagnetic navigation



A differential bridge analog output

Two Versions

There are currently two ALT-Series TMR Magnetometer versions:

Part Number (click for more information)	Linear Range	Sensitivity
ALT023-10E [NEW!]	0 to 1 mT	200 mV/V/mT
ALT025-10E	0 to 10 mT	20 mV/V/mT

In Stock

The [ALT023-10E](#) and [ALT025-10E](#) are both in stock for immediate delivery.

Buy Online
\$9.95 shipping

[Download the Datasheet »](#)

Demonstration Video

As this video shows, the ALT023 is sensitive, low power, and ridiculously easy to use:



Tradeshows



Our Taiwan distributor Kaltec International showed NVE products at the Taipei International Industrial Automation Exhibition in December.