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**Document Updates**



Freshly updated with new products, the short-form

**Sensor Catalog** summarizes parts and specifications in each of NVE's six sensor product lines.

[Download Sensor Short-Form Catalog >](#)

**New YouTube Videos**

[New ADT-Series TMR Rotation Sensors](#)

[Nanopower magnetic sensors run \(almost\) forever on a watch battery](#)

[ADL 1.1 mm Nanopower Sensor Demonstration](#)

[GMR Sensor Demonstration](#)

**"Rotate" Back**



Daylight Saving Time ends Sunday, November 6. "Rotate" your clocks back an hour.

**Holidays**



NVE will be **closed** Thursday and Friday, November 24 and 25 for the Thanksgiving holiday.

We will be **open** Veterans' Day (Friday, November 11).

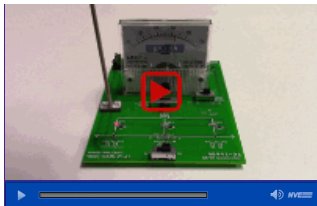


**Nanopower Magnetic Sensor Evaluation Kit**

The ridiculous low power of NVE's ADL-Series nanopower magnetic sensors is shown with an analog meter driven by an amplifier with a gain of 1000, providing a 100 nanoamp scale.

The self-contained demonstrator runs on a three-volt coin cell, with each of the three ADL sensor power ranges—the continuous duty ADL921; and the ADL021 and ADL121, which are internally duty-cycled for power consumption in the nanowatts.

In addition to ridiculously low power, ADL-Series sensors are the most sensitive and smallest sensors in their class, with magnetic operate points as low as 20 Oersted and parts that fit on the head of a pin.



Key ADL-Series sensor features are:

- Sensitive (as low as 20 Oersted)
- Ultralow power (as low as 72 nW)
- Ultraminiature 1.1 mm package

ADL sensors and demonstrators are [in stock](#) for immediate delivery.

[ADL Demonstrator Manual >](#)

**Buy Online**  
\$9.95 shipping

**Upcoming Exhibitions**

NVE staff will be supporting our distributor IS-LINE GmbH at **Electronica**, November 8-11, Munich Trade Fair Centre, Hall A4, stand 415.



**New Demo Kits**



[AG941-07E: ADL-Series Evaluation Kit](#)



[AG040B: ADL041 Mini Eval Board](#)



[AG932-07E: ADT002 Rotation Sensor Eval Kit](#)



[AG940-07E: Digital/ Analog/ Omnipolar/ Bipolar Sensor Demo Board](#)

**Halloween Application Corner**

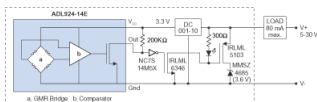


**Non-Frightening Two-Wire Interfaces**

Two-wire sensor interfaces can be frightening, but NVE parts make them easy.

With the sensor off, the two-wire interface circuit must draw a minimal residual current, typically about 1.5 mA. With the sensor on, the circuit has to provide enough current to drive a significant load such as a motor or solenoid.

This [reference circuit](#) uses an NVE [DC001-10](#) regulator to wide operating latitude over the input voltage range:



**Two-Wire Reference Circuit**

The residual current is dominated by the regulator's quiescent current, which is less than 1 mA and relatively constant over input voltage. A Zener diode can be used instead of a voltage regulator in many applications.

[2-Wire Interface video \(03:30\) >](#)