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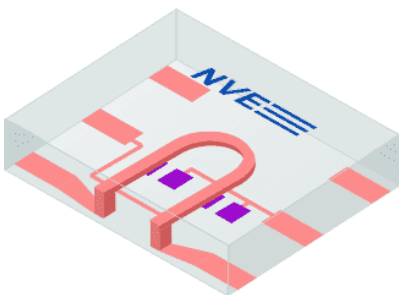
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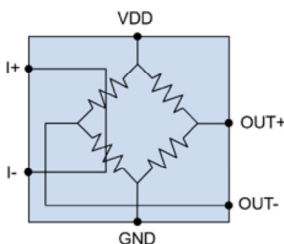
Analog TMR Current Sensor

The ACT001-10E is a high-sensitivity, inline analog TMR current sensor for AC or DC measurements.

The part is in an ultraminiature 2.5 x 2.5 mm DFN6 package with an integrated current strap:



A Wheatstone bridge configuration provides a bipolar differential output proportional to the current through the strap:



Key ACT001-10E **specifications** include:

- ±500 mA linear range
- 0.04 mV/V-mA sensitivity (typ.)
- 0 to 14 V supply (no minimum)
- Ratiometric output
- Fully isolated
- -40 to 125 °C temperature range
- Ultraminiature 2.5 x 2.5 x 0.8 mm DFN6 package

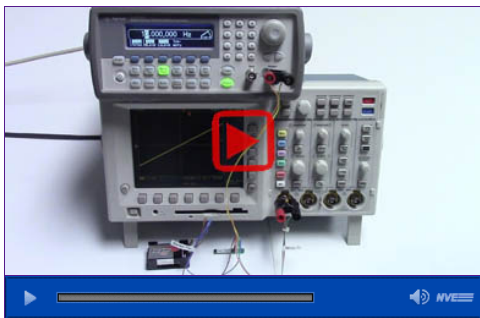
Applications include:

- AC and DC motor control
- Power measurement
- Overcurrent protection
- Battery management systems

[Download the Datasheet »](#)

Demonstration Video

This video demonstrates the new ACT001. We plot the sensor's transfer function and demonstrate AC and DC applications:



Available Now

ACT001-10E sensors are [in stock](#) for immediate delivery.

Buy Online
\$9.95 shipping

Conferences

Highlights from the recent Joint **MMM-Intermag Conference** in New Orleans:

- All of the winning entries for the Magnetic Sensor Challenge used NVE sensors. Here are videos of the winners:
 - » [A magnetic flute](#)
 - » [Sensing beer level](#)
 - » [Respiration sensor](#)
- NVE researcher Justin Watts co-authored a paper titled, "Magnetic noise measurements and demonstration of a field-induced magnetic monopole plasma in artificial spin ice."