









In This Issue

[Current Sensors](#)

Quick Links

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

New on YouTube

-  [Sensor breakout boards](#)
-  [Hot Dog Cookers](#)
-  [Expanded Line of TMR Magnetometers](#)
-  [Ultrasensitive Magnetic Sensors for Arduino Trinket](#)
-  [World's Smallest 2500 V Isolators](#)
-  [1000x Faster than Optocouplers](#)



Current Sensor Breakout Boards

New Boards

We recently launched three new current sensor breakout boards to let you easily evaluate three types of xMR current sensors.

Three Current Sensor Board Types

1. Onboard current strap (ACT001-10E-EVB01)

This sensor provides high sensitivity to detect currents of 500 mA or less. Its bridge configuration provides a differential output and can be powered with any voltage from 0 to 14 V. It provides line-voltage isolation.



2. Noncontact GMR bridge sensor (AAL024-10E-EVB01)

A low-hysteresis bridge sensor mounted over a circuit board trace allows simple detection of currents up to 7 A with virtually no insertion loss. This configuration is ideal for overcurrent detection.



3. Noncontact smart sensor (SM223-10E-EVB02)

A precise, smart sensor is factory calibrated for linearity and temperature stability. A two-wire I²C interface is ideal for microprocessors and requires just a few lines of code. This board demonstrates a current trace on the bottom of the circuit board for high isolation.



Ridiculously Simple Interfaces

The ACT001 and AAL024 bridge sensors use just four pins for power and a differential output. The SM223 Smart Sensor needs just two wires for I²C and a few lines of code, so you can be up and running in no time.

Small Sensors

Simple interfaces mean low pin counts and small packages. All three of the sensors come in ultraminiature 2.5 x 2.5 mm DFN6 packages.

Small Boards

The boards are less than 1/2 x 1 inch (13 x 25 mm) and have your choice of sensor, bypass capacitors as recommended, a standard 0.1-inch header and a 1 mm pitch card-edge connector.

Succinct Documentation

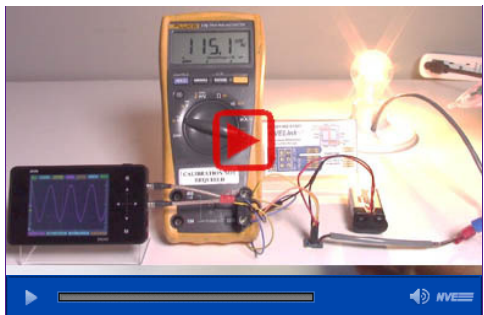
Each board has a business-card size guide with pinouts and specifications. QR codes provide links to detailed datasheets.

In Stock

All three boards are [in stock](#) for immediate delivery:

Breakout Board (click for more information)	Technology	Output	Configuration	Range	Isolation
ACT001-10E-EVB01	TMR	Analog Bridge	On-board strap	500 mA	240 V
AAL024-10E-EVB01	GMR	Analog Bridge	Trace on top of board	7 A	100 V
SM223-10E-EVB02	TMR	I ² C; Digital Threshold	Trace on bottom of board	7 A	>6 kV

We demonstrate each of the new boards in this video:



Buy Online
\$9.95 shipping